MANORAMA YEARBOOK 2002

Chief Editor

Editor

Managing Editor

Executive Editor --

Editor-in-Charge

Chief Sub Editor

Senior Sub Editors Sub Editors

Editorial Research

K.M. Mathew

Mammen Mathew*

Philip Mathew

Jacob Mathew

K.C. Narayanan

Paul Manalil

Rajesh Kalia, S. Raman Biju Mathai, Biplab Sengupta

V. George Mathew

Contributors:

S. Sethuraman: Indian Economy-A New Dawn(p.26); Dr. Bibek Debroy:

India's Economic Development and Population Growth (p.78); K. Obeidulla:

Current Affairs (p.86); K.S. Sachidananda Murthy: A Review of India 2001

(p.120); Dr. V.P. Kulkarni: Internet-The Omnipresence, Internet Enabling Technologies, e-Education and e-Governance (p.130); P. V. Manoranjan

Rao: Lightning (p.186); Dr. M.A. Varghese: Medicine in 21st Century (p.226); Dr. S. Chandrasekharan: Indians Abroad (p. 373); Aravinda R.

Deo: India's Turbulent Neighbourhood (p. 378); Joseph George: Technology Careers in the 21st Century: Surviving Change (p.382); B. S. Warrier: Civil

Services: A Gateway to Distinction (p.386); V. George Mathew: Quiz-2002 (p.486); Dr. A. D. Damodaran; Intellectual Property Rights (p.533); Krishnan

Venugopal: Anti-Dumping as a Remedy for Unfair Trade (p. 572); Sports Arena (p.703): Sanil P. Thomas, Antony John, Anil Radhakrishnan and Jayan Menon of Malayala Manoruma.

Triv

Book design & Cover Anoop Ramakrishnan

Layout & Design

Vinod R. Unnithan

Printed and published from Malayala Manorama Press, Kottayam-06000T by Mammen Mathew, on behalf of the Malayala Manorama Co. Ltd.

Chief Editor: K. M. Mathew

Reg No. 40731/82, ISSN 0542-5778.

Price Rs. 90/-

Manorama Yearbook is published as independent editions in Hindi, Tamil, Malayalam and Bengali with special focus on the relevant regions.

*Prisponsible for the selection of news under the PPB Act.

Circulation Offices

NEW DELHI

Malavala Manorama 7A Kashi House ist Floor.

Connaught Place New Delhi-110 001 Phone: 011 3710166, 3314640.3314650

MUMRAI

Malavala Manorama 6th Floor, Office No.7 New Excelsion Building

Fax: 011 334670

Wallace Street Mumbai- 400 001 Phone: 022 2037403

Fax: 022 2079610

CALCUTTA

Malayala Manorama 43/2B.

Suhasini Ganguly Sara

ist Floor, Bhowanipur

Calcutta- 700 025 Phone: 033 4555962.

4556995 Fax: 033 4556995

CHENNAI Malavala Manorama Heavitree. 3rd Floor

No.23 Spurtank Road Egmore Chennai-600 031 Phone: 044 8212267.

8231567, 8218689. 8218883 Fax: 044 8218694

BANGALORE Malayala Manorama

Empire Infantry 29, Infantry Road Bangalore- 560 001 1080 2867345,

2860995, 2863195 0 2866176

HYDERABAD Malayala Manorama Road No.12, House

No.B629/1/B, Beniara Hills Hyderabad- 500 034 Phone: 040 3314168,

3324692

Fax: 040 3322970

P B No. 26 Kottayam 686 001 Kerala India Phone 563646 563656 Fax 91- 481- 562479 e-mail: yearbool@mm.co.in

A New Direction

It is over a decade since India began to liberalise its economy. The market is elevated as the architect of investment decisions and globalisation is the order of the day. Palpable changes have begun to make a mark on our lives. It is time we took stock of the situation and tried to see where we stand. The cover story this year is, therefore, a review of the Indian economy with special emphasis on globalisation and its impact. The population factor vis-a-vis economic development is given special treatment in this study.

A number of new elements have been introduced in *Yearbook* 2002. A section on terminology (What is What), Bharat Darshan-100 tourist destinations in India, 101 alternative medicines, mythology, an enlarged GK section and a new look to the Sports section are among the chief attractions.

Special articles touch upon different areas of life: Technology careers in the 21st century, India's turbulent neighbourhood, Intellectual Property Rights, Anti-Dumping, Medicine in the new century, Indians Abroad, a Review of the year 2001, etc.

The regular sections have been retained, with new inputs in each. The popular quiz section presents Quiz 2002, with 1001 fresh questions and answers. The Science and IT sections give an insight into the latest in these areas. The Education and Career section contains a model question paper for candidates taking Civil Services examination.

The New York tragedy of Sept. 11 has changed the world. The Current Affairs section deals with every major development during the year under review

Manorama Yearbook has continued to be on the best seller list for the seventh year in succession. The Yearbook, primarily intended to serve the information need of young men and women on the threshold of career options, has also become a ready reference companion for executives, researchers, teachers and all others seeking knowledge. What is more, it has been prescribed as a reference book for certain courses.

The Yearbook has been redesigned to make it more user-friendly. Readers will find the new typeface and its size, and the layout more pleasing.

I extend my thanks to all contributors, advertisers and well-wishers. Feedback from readers has always been a source of strength to us. Please let us have your suggestions.

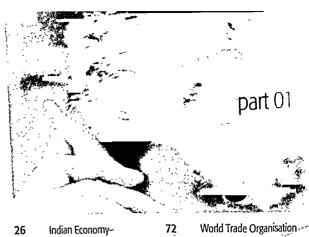
A hearty welcome to the 37th edition of Manorama Yearhook, and best wishes.

SOMETIMES, HARD WORK ALONE, IS NOT ENOUGH.

You also need the power of an active mind.

Dabur Shankhapushpi is a tonic that is extremely helpful in the complete development of your mind. It contains the traditionally proven goodness of 'Shankhapushpi' and 'Brahmi', that sharpens your mind. 'Shankhapushpi' regulates the neurotransmitters in your brain to improve your power of concentration immensely. But that's not all, 'Brahmi' is extremely effective in reducing nervousness of all kinds. So if you want to excel in life, Dabur Shankhapushpi will be an ideal partner for you.

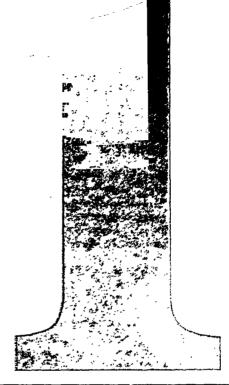
USEFUL FOR COMPLETE MENTAL DEVELOPMENT



	i na	-	
26	Indian Economy-	72	World Trade Organisation
	A New Dawn	72	Indian Population
34	Agriculture	78	India's Economic
42	Industrial Scene		Development and
46	Foreign Trade		Population Growth
48	External Sector	•	•
62	Globalisation V	84	Flags of Nations
64	Impact of Globalisation 🐷	86	Current Affairs:
68	Global Institutional		International
	Framework	110	Current Affairs:
68	International Financial		National
	Institutions	120	A Review of India 2001
	* 4		
60	Financing Targets for the	176	Maria of Moon
	Touth Plan (2002 07)	170	Adiau MID

いいないだった

	÷	ě	
60	Financing Targets for the	176	Maria of Moon
	Tenth Plan (2002-07)	178	Adieu MIR
132	Internet Domains	183	A New Space Odyssey Blasts
135	Internet Country Codes		Off
136	Internet lingo	184	Forced Landing Exercise on
138	Emoticons		Asteroid
143	. Bluetooth Revolution	187	Mythology of Lightning
149	Data Beamers	188	Types of Lightning
172	Solar Statistics	189	Guidelines to be Followed
175	Planet Names		During Thunderstorms
175	Lunar Statistics	191	Earth Data



Competition Successieve

India's Largest Selling
General Knowledge
Magazine

Leader For The Last 3 Decades

Let our experts show you the right way



Career 'Plan, India's foremost entrance exam training institute, offers correspondence courses to help you prepare for entrance exams of MBA, MCA, GRE, GMAT and TOEFL: Career Plan is managed by a team of qualified academicians and professionals with several years of experience in training for entrance exams.

Over the last 12 years, thousands of students have benefitted from Career Plan's expertise. We have an impressive strike rate of 1 in 4 of our students making it to prestigious business schools and universities in India and abroad. Needless to say our course material and testing methodologies have been developed by IIM alumni.

Come. Take the first step to success on your chosen path. Get in touch with Career Plan today.

For more information/prospectus:

- E-mail enquiries@careerplanindia.com
 - Call your nearest Career Plan centre
 - Write to our Bangalore address.
 - Log on to www.careerplanindia.com



Corp. Office: 206. Sophia's Choice, St. Mark's Road, Bangalore - 560 001. Tel: 2211007, 7561504.

CLASSROOM / CORRESPONDENCE COURSES FOR

2002

and the MBA entrance exams of XLRI, FMS, Bajaj, IIFT, etc

105 TIME students selected this year into IIMs alone - a total of 208 final selections.

Institute	IIM-A	IIM-B	IIM-C	IIM-L	IIM-I	IIM-K	Total
TIME Students selected	25	39	44	52	23	25	208

Talk to our students - they will tell you why **TIME** is the BEST

Classroom Training at Bangalore Kottayam © 302495 © 2864461 Bhubaneshwar © 561211 **Palghat** 500325 337725 Pondicherry **(?**) Calicut © 767503 Quilon © 793725 Chennai © 4754481 Trivandrum O 449962 Cochin © 371774 © 387506 © 216857 Trichur Coimbatore Delhi Vijayawada © 488211 © 6110364 Hyderabad O 596866 © 7898194/5 Vizag



Website: www.time4education.com

Secunderabad: 95B, Siddomsetty Complex, Park Lone ©: 7898194 / 7898195

Cochin: 39/4083 A, 1st Floor, Parigues Family

(1): 371774 / 383775



373

378

Indians Abroad

India's Turbulent

Neighbourhood

UN. World's Peacemaker

International

Organisations

258

360

366

370	World Population Trends	Noi2tto anno
3	1	A Charolate-scented S Marying Forly Marying Forly Med Getherins Market to Sci Med Hadrand for Sci Med Analysis from SSI The Analysis from SSI Topish in America Member Stany Continent Member Stany of the UN Member Stany of UN Offices in Membe
	223 100000000000000000000000000000000000	

48 YEARS OF UNMATCHED SUCCESS



Our Results: Four in first ten

For 2000 exam: Total Selections 187

Enrolment now open for: Civil Services Exam 2002

Personal Guidance: General Studies / Essay, History, Sociology,

Public Administration & Geography.

Postal Guidance (English Medium only): General Studies,

Geography and Sociology.

क्लास रुम कोर्स (हिन्दी माध्यम) :

सामान्य अध्ययन/निवंध, लोक प्रशासन, इतिहास, समाज शास्त्र एवं हिंदी साहित्य

HOSTEL FACILITY ARRANGED.

Contact personally or write for prospectus with a DD/MO for Rs 30% favouring Rau's IAS Study Circle



THE ORIGINAL RAU'S/RAO'S-SINCE 1953

Admn. Office: 44, Dakshineshwar Building, 10 Halley Road

Off Barakhamba Rood, New Delhi-110001 Ph : 3355906, 3738906/7 Fax 3712795

Campus . 309 Kanchanjunga Bidg , Baral hamba Road New Delhi-110001, Fh 3312857, 3313498

Visit: www.raulas.com





704	Athletics	730	2006 World Cup,
710	World Athletic Meet,		Germany
	Edmonton	732	Futsal-football of the
712	Cicket		future
712	The Two Forms of Cricket	736	Olympic Games
716	Newsmakers of the Year	740	Asian Games at Pusan
718	Snippets	742	Chess
718	Records	744	Hockey
721	Ranji Trophy	745	Sports Miscellany
722	Tennis	750	Sports Titbits
725	Career Graph of top Ten		
726	Football	752	The Exciting World of
728	2002 World Cup in Asia		Hobbies
684	Bid for a 'Clean State'	712	Record Partnership for each
685	Special Category Status		WKI in Test
607	A 'Braile' Park	712	Test Hat-Tricks by Stow
690	Iclemedicine	713	Haibhajan, Launan in Reco
691	Women Indges		Books
691	Caution to Cancer	714	Test's Highest Inning, Total
692	Golden Rico	714	Indian Balting Record Pr
702	A Sister City in France	714	Youngest Test Debut C
710	Ndordsi Clocks World's Best	715	The Ashes

Time in Marathon

One Day Partnership

715

CAT 2002

750+ Final Calls from IIMs in CAT 2000!

FACT FILE

- All India CET 2001 Topper from IMS
- More than 750 final admission calls in CAT 2000 from the IIMs alone
- 25 years of legacy More than 50,000 students from the Prestigious Management Institutes are IMS Students
- 70% of all IIMs graduates are from IMS

CATapult

The Extended CAT Training Program

- Classroom Course of 215+ hours
- Detailed Teaching of Basic Concepts in Mathematics and English. All test areas covered
- Mentoring Sessions for Goal Setting and Doubt Solving
- 10 All India Simulated CATs

I-cet"

The CET CRACKER for CET 2002

- 17 Comprehensive Tests to
- increase your speed
 50 Section Tests to help you build
- your accuracy
 GD & Interview Orientation

CAT CLASSIC

For the IIMs, XLRI, FMS...

- Classroom course of 150+ hours
- Comprehensive coverage in Maths and English
- Personalised Feedback and Counseling
- 10 All India Simulated CATs

Correspondence Enhanced or Regi

- Well researched Study I/
- All Subject queries a within 24 hours
- 10 and 2 Sim CATs for E and Regular Corresp Students respectively
- Free GD & Interview One

ENROL TO SUCCEED

BY CHOICE. NOT CHANCI

Write to us for a detailed course prospectus along with an IPO/MO/DD/Pi Rs.25/-only Or Directly Enrol through our website www imsindia com

Write / Call / E-mail / Walk-in to



IMS Learning Resources Pvt.

Edge'ucatio

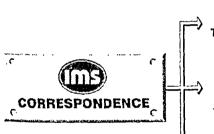
H.O. Mumbai: 1/45, Tardeo AC Market, Pin - 400 (Tel: 495 5000 / 3439 / 4637 / 494 2855. Fax: 493 15 E-mail: ims@imsindia.com

758	Calendar of Events 2001		
780 810	World Calendar of Events 2001 India Council of Ministers	814 818 821 824	Heads of Important Offices Obituary 2001 Stop Press Index

HARVARD, MT, WHARTON,
STANFORD, CALIFORN, NEW YORV
CHICAGO, LONDON... your next's destination
To get to Your Destination Mass your GDT.

To get to Your Destination Next, your GRE and GMAT scores become one of the most important criteria for admissions as well as financial aid, to fund your studies abroad.

THE HIGHER YOUR SCORE, THE BETTER YOUR CHANCES!



IMS MaxGMAT

The Top Scorer GMAT Training Program

IMS MaxGRE

The Complete GRE Training Program

IMS MaxSAT

The Total SAT Training Program

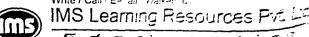
Humy!
ENROL NOW

Classroom Courses

for GPE GHAT. SAT, CAT & CET at

- Chenna: Delh: Kolkara Minniri
 Ahmrishar Zangalore Chandlesh
 - # Hyderahad # Pane

Write / Call / E-mail / //aik-n to



H.O. Mumbai: 1/45. Tartec AC Market, Fin -45.7 Tel: 495 5000 / 3439 | 4637 | 494 2855. Fex: 45

Email: cie@imsindia.com

Manay implimate



Manufacturers of:

The Best **"COCK"** Brand Sparklers, Crackers, Rockets & Toy Fireworks

SRI KALISWARI FIRE WORKS

5-A, Chairman A.Shunmuga Nadar Road, Post Box No.133, SIVAKASI - 626 123. Tamilnadu, India.

TEL : ROCKET

E-Mail Address :- skfw@vsnl.com website : www.kaliswari-fireworks.com Phone : (04562) 420078,427825 & 421614 Fax No : 91 - 4562-427063

adian Economy -A New Dawn

S Sethuraman

Formerly Chief Editor, Press Trust of Inde

• he Indian economy, having completed a decade of sustained growth at over six per nt, is structurally transformed, developing new engths, to become a strong regional power in e early years of the new millennium.

Internationally, India, the world's largest emocracy, is already regarded as an emergage economic power with potential to rank mong the first five major nations of the 21st entury. Even at an average of 6 to 6.5 per ent, India is one of the fastest growing economics of the world along with China.

To attain the coveted status, there is a long and difficult road ahead. A huge country of striking contrasts and cultural diversity, with over one billion people, needs effective governance, notwithstanding its well-established democratic system, the largest in the world, under a Constitution, which guarantees political freedom and rights of the individual.

With the second largest population, 16 per cent of the world's total, next to China, India confronts massive challenges of eradication of poverty and of ensuring full employment within the first two decades of the new century. More important, the State has to make itself solvent and generate resources to achieve universal literacy, health care for all, and provision of drinking water and other basic amenities to improve the quality of life of the people. Social indicators are among the lowest in the world. One-third of the world's poor are in India.

India's development record, with all-round impressive strides in economic and social development, has shown up serious weaknesses which have thwarted progress toward growth and reform with social equity. These include both the unsustainable fiscal deficits of the Centre and the States and grave failures of administration at all levels in delivering the services to the people.

Era of Liberalisation

Structural changes have followed the transformation of India in 1991 from a highly-regu-

100

lated and inward-oriented to an outward-looking economy in which the State dominance in most spheres of activity is giving way to private enterprise and contribution.

India has completed the first post-liberalisation decade with respectable growth rates, but without making visible impact on unemployment or social development. Growth has not begun endowing the State with revenue surpluses to invest in infrastructure, physical and social. Bridging huge revenue deficits through galloping borrowings, which have crossed the 100,000 crore mark, have characterised fiscal management in the latter half of the decade.

Overall, India has maintained macro-eco nomic stability helped by good harvests, re surgence in manufacturing, and a robus growth in Services, outpacing the primary an secondary sectors. Policy reforms have opene up the economy, increased export compet tiveness, and brought in investment and othe capital flows from abroad. India's external v ability has been well maintained during the decade despite volatility in international financial markets, the Asian financial crisis (1997) with its contagious spread, and excessively high oil prices. With a low current account deficit, the balance of payments nosition has remained comfortable and the level of foreign exchange reserves has been steadily building up (45 billion dollars as on October 19, 2001 from 35 billion dollars a year ago). The rate of inflation has been contained at moderate levels while the rupee has come under pressure from time to time resulting in sizable depreciation from Rs 35.42 to the US dollar in 1996 to Rs 47 in 2001.

Structural Changes

India's economic strength is no doubt derived from agriculture with food self-sufficiency. But the growth of the economy is no longer as vulnerable to agricultural performance as in the past. The share of agriculture in GDP has been diminishing—by more than half since independence-reflecting the diversification of the economy. Agriculture, however, is the most crucial sector as 70 per cent of people live on incomes from land. India has been having

a succession of good monsoons for twelve years reducing the yearly fluctuations in

Industry no longer shielded from external winds, has during the decade been attempting to restructure itself in ways that could help India to compete with the rest of the world. India has to catch up with even many of the developing countries in Asia in the develop-

foodgrain output.

ment of manufactured exports. What is of growing significance for the economy is the steady rise in the share of services, which now accounts for over 50 per cent of GDP. More recently, India's future has brightened with the breakthroughs in Information Technology (IT) sector and the proven skills of Indian professionals who are in de-

mand in developed parts of the world. The IT-related services would give a tremendous boost to the economy in the years to come. Sectoral shares of GDP at present are Agriculture (26 per cent), Industry (22 per cent) and Services (52 per cent). India is undergo-

ing an Information Technology (IT) revolution, and has developed a universally-acclaimed software industry, which has become the fastest growing sector of the economy. India aspires to be a software superpower by 2008 with exports at 50 billion dollars, as compared to the current level of merchandise exports of 45 billion dollars. Future growth of the Indian economy will be driven largely by

both the conventional services (Trade, Trans-

port, Tourism, Financial and Community

Services) and the IT-related services. India's "old" economy has been performing below its potential unlike China which, in a span of 20 years, has made spectacular advances in output and trade to be reckoned as an Asian economic giant. There is, however, recognition that India, like China, is a source of stability for the world economy,

because of its consistent growth records and

pursuit of reforms in the direction of making

the country internationally competitive. In terms of trade and financial flows—hall marks of globalisation-India's share is still insignificant, in relation to China, but its potential for greater productivity and advances in the "New" economy are likely to push it

Garden City नेगांबर्

ত Science & Management সাটোক

CLEFFICIATED TO RESERVOIS ESPICESSITY, APPROVES BY ALCITE, SAYT, OF CIRCLE

Admin, Offic # 628/c, 11th Cross, 1st Stage, Indira Ragar, Bangalora 560033. Phone: DBD-5288831, 5271385, 5214246, Fax: 080-5291414. E-mail: gcetrust@vsnl.com

ADMISSION NOTICE - 2002

B.C.A.
Becheloral Computer Application Dan: 3 Trs.
10-21 equivalent with 40% marks in any interplica-

Dur.: 3 Yes.

Pass in 10+2/ equivalent with Mathematics as STUICE & Physics/Statistics as

B.Sc. Microbiology Dur.: 3 Tra. PCSS in 10+2/ equivalent with Chemistry & Sielegy. B_SC_Genetics

Dur.: 3 Trs. Pass in 10+2/ equivalent with Chemistry & Biology.

B.SC. Biotechnology But.: 3 Tes 21: in 10+2/ equivalent with Chemistry & 10077

S . . . (FAD) Fliften & Apparel Design Dat .: 3 Trs. 233 in 10+2/ equivalent with 45% marks 11111113

B . A . Journalisio 21: in 10+2/ equivalent. B. B. IVI.
Berlichter Business Management
Pir in 10+2/ equivalent.

Backfill of Hotel Management Dur.: 4 Yes 215 in 10+2/ equivalent.

Dur.: 3 Yes.

Dur.: 3 Yrz.

Der.: 2 Tra

BAT.T. Physiotherapy et in 10 co equivalent und Eff Marte appregate & stady is N

Selelite with Computer Science 2:: 10+2/ equivalent Der.: 3 Tri. Mestic, of Business Administration Due: 2 G

Master of Loreputer Application
Asserted Section Application
Asserted of Mathematics or Sections Mathematic
Computer Science as a subject at 10-2 level Dur.: 3 Yes.

Dur.: 2 Yes Master of Tourism Administration
(1) recognized a years degree with July mente appreptie. M.SC.Microbiology 3 years degree with 50% marks and 20 Dur.: 2 Tra

I years degree mil 58% marks and es a subject and other optionals related to life So Separate Hostels for Boys and Girls, 100% pfs=#1 essistence through campus interview For Prospectus and AppEcation sand Rs 250/- by Bank 🕬 🖰

Note Students appearing for 12th Sta-Final Examination in this year are als

VI_SC_Biotechnolog

http://www.gardencitycollen-

orward to the ranks of the world's largest conomies, next only to USA and China, by the middle of the Twenty-first Century, acording to the World Bank assessment.

Challenges Ahead

Indoubtedly, poverty, though coming down lowly, is one of the most daunting chalenges, with over 300 million in the 'absolute poor' category. Full employment, universal iteracy, health care and raising the quality of ife for all its citizens without discrimination, caste, creed and gender are equally formidable tasks to accomplish.

Statistically, higher growth translates itself

into higher per capita incomes but as else-

where in the developing world, there is no

'trickle down' to make an impact on the poor.

Economic growth in India has not created the anticipated increase in employment opportunities and the country's planners are still groping for a job-creating high growth strategy. For a labour force growing by 2 to 2.5 per cent per annum, employment generation has been less than one per cent over the last decade. The decade of 1990s opened with an unrecedented economic crisis which was turned nto an opportunity to transit from an insular, import substituting to an outward-looking and export-oriented economy. The first flush of reforms (1991-94) focused on the

nto an opportunity to transit from an insular, import substituting to an outward-looking and export-oriented economy. The first flush of reforms (1991-94), focussed on the dismantling of controls and regulations in trade and industry and capital and foreign exchange markets, the lowering of taxes and tariffs, and the creation of a conducive climate for private investment, both domestic and foreign, helped to set India on the road for sustained growth.

India remained relatively immune to turmoils in international capital markets with

turmoils in international capital markets such as Mexico (1994) and Asia (1997) and could tide over economic sanctions imposed after its underground nuclear tests (1998), the adverse impact of high oil prices (1999-2000) and pressures of global competition, all showing up the resilence of the economy. At the same time, India had shored up external reserves with NRI bond floatations and investment inflows. As long as the global links have not grown appreciably and the economy is well managed, it is unlikely to come under the contagious effects of financial turmoils in other parts of the world. But any prolonged rolatility in foreign exchange markets in ma-

jor industrial countries could begin to exert more pressures on the exchange rate of the rupee and also affect the trade turnover. A virtual stagnation in the rates of domes-

tic savings and capital information in the lat-

ter half (1996-2000) has not disrupted GDP growth achieved with improved productivity. But for the medium-term, both the present level of capital formation and the availability of infrastructure are clearly inadequate to move the economy on to a higher growth path of to 8 per cent which is considered essential to garner resources for the State to increase public investments in economic and social overheads. The inescapable requirements of higher growth in resource mobilisation and strategies needed to fulfill the long-held basic social objectives are being spelt out by the Planning Commission in its Approach on the Tenth Five Year Plan (2002-07) document.

Recent Economic Performance (1997-98 to 2000-01)

The Indian economy certainly enhanced its performance in the 1990s with GDP growth average at 6.4 per cent as against the 5.5 per cent in the eighties. Growth in agriculture has been lower on average through the decade at 1.5 per cent while industry was also on a lower trajectory after 1995-96. Fiscal and other policies designed to stimulate industrial activity did not bring about the expected revival, especially in the manufacturing sub-sector, which has the predominant weightage (80 per cent) in the industrial production index. Against industry's 5.6 per cent, the services sector recorded average growth at 8.2 per cent, thus making up for shortfalls in the primary and secondary sectors and contributing to the resilience of the economy in years of agricultural setbacks and industrial slowdown.

In the changing sectoral composition of GDP, the Services sector has assumed a key role and its expansion influences production, employment and exports. Even if a good part of the growth in services sector is traceable to community, social and personal services, which include public administration and defence, where incomes have risen on account of factors like revision of pay scales and other emoluments, its contribution to the GDP growth of 6.4 per cent in 1999-2000 was estimated to be about 70 per cent.



हमासिक Extra Issues

SEFUL FOR UNION & STATE PUBLIC SERVICE EXAMS

Series-1 Indian Economy	Code 790	Rs. 80.00
Series-2 Geography (India & World)	793	130.00
Series-4 Indian Polity	797	110.00
प. सीरीज-1 भारतीय अर्थव्यवस्था	791	85.00
प. सीरीज-2 भूगोल (भारत एवं विश्व)	792	75.00
प. सीरीज-3 भारतीय इतिहास	795	80.00
प. सीरीज-4 भारतीय राजव्यवस्था	794	85.00
प. सीरीज-5 भारतीय कला एवं संस्कृति	796	65.00
प. सीरीज-6 सामान्य विज्ञान Vol. 1	829	50.00
प. सीरीज-6 सामान्य विज्ञान Vol. 2	830	50.00
प. सीरीज-7 समसामयिक घटनाचक्र Vol. 2 (I)	856	30.00
प. सीरीज-7 समसामयिक घटनाचक्र Vol. 2 (II)	857	30.00
प. सीरीज-8 सांख्यिकीय विश्लेषण	821	35.00
ुं प. सीरीज-9 वस्तुनिष्ठ सामान्य हिन्दी	822	45.00
े प. सीरीज-10 वौद्धिक एवं तर्कशक्ति परीक्षा	825	65.00
े प. सीरीज-11 समाजशास्त्र	810	70.00
प. सीरीज-12 भारत का राष्ट्रीय आन्दोलन एवं		
संवैधानिक विकास	823	60.00
प. सीरीज-13 खेलकूद	828	45.00
्प. सीरीज-14 कृषि विज्ञान	836	65.00
्ष. सीरीज–15 प्राचीन इतिहास 🗘 💮	837	85.00
प. सीरीज-16 मध्यकालीन इतिहास	838	75.00
प. सीरीज-17 आधुनिक इतिहास	839	85.00
प. सीरीज-18 दर्शनशास्त्र	842	35.00
प. सीरीज-19 न्यू रीजनिंग टेस्ट	843	75.00
राजस्थान वी. एड. प्रवेश परीक्षा (संस्करण 2001)	815	75.00
उत्तर प्रदेश वी. एड. प्रवेश परीक्षा (संरकरण 2001)	817	70.00
एस.एस.सी. संयुक्त (प्रा.) परीक्षा (मैट्रिक स्तर पदों के लिए)	847	65.00
ज. प्र. पुलिस सव-इंस्पेक्टर (प्रा.) परीक्षा	799	70.00

UPKAR'S CAREER BOOK For All Competitive Exam



SYMBOL OF SUCCESS

371 Practice Sets Medical Entrance

	o Books	Price	345	Quicker Numerical Physics	
ode l	101	275.00		(Medical & Engineering)	i
	NDA Exam. CDS Math	135.00	483	Practice Work Book	
-	BSF Police Sub-Inspector	175,00		(LOL MERICAL CHRANCE LEST)	ì
	Sentence Arrangement	30.00	- 388	MCQ in Physics	85.
	Practice Work Book Physics	50.00		MCO in Chemistry	85
دعار	(For IAS & State Services)	80.00	334	MCO in Zoology	72
922	CRPF Sub-Inspector Exam.	170.00		MCQ in Botany	7
	Comprehensive Botany	90.00		C.P.M.T. (Combined)-AT A GLANCE	2
	Practice Work Book Mathematics			CBSE (Combined)—AT A GLANCE	230.
	(For I.A.S. & State Services)	140.00		M.P. PMT (Combined)-AT A GLANCE	335.
*362	BCA/BIT Entrance Test	280.00		M.P. PET (Combined) Guide	280.
				Raj. PMT (Combined) AT A GLANCE	190.
277	Air Force Recruitment Test		399	Pioneer Series CBSE Medical Biology	170.
312	(Technical Trade)	130.00	413	Pioneer Series CBSE Medical Chem.	280
328	Air Force Recruitment Test By: K. &		414	Pioneer Series CBSE Medical Physics	210
	Air Force Recruitment Test By: T.S.		415	Pioneer Series CPMT Botany	165
	Railway Recruitment Board Exam.	74III 12.00	416	Pioneer Series CPMT Zoology	175
	By: Dr. Lal & Jain	95.00	417	Pioneer Series CPMT Chemistry	270
333	Railway Recruitment Board Exam.	75.00	418	Pioneer Series CPMT Physics	2
	Railway Commercial Vocational			•	
	Course Entrance Exam.	72.00		4	
435	Railway Recruitment Board (Tech.)	. 125,00	343	SSC Comb. Main (Matric)	
459	S.C.R.A. Exam.	305,00		(For Stenographer Grade 'C' & 'D')	120
			342	SSC Comb. Main (Matric) (For LDC)	115
344	UP Engineering Adm. Test			S.S.C. Combined Preliminary Exam.	
5-1-4	(Combined Guide)	380.00		(For Metric Level) By : Dr. Lal & Jain	
369	Practice Work Book Engg. Entrance	140.00	492	S.S.C. Combined Preliminary Exam.	٠.
•••	Transport Englishment	140.00		(For Metric Level) By: Dr. Singh & Sharmo	: 135
	•		490	S. S. C. Combined Preliminary Exam.	
	M.P. General Nursing Training	280.00		(Graduate Level) (By Dr. Lal & Jain)	210
314	True or False and Fill in the Blanks		489	S. S. C. Combined Preliminary Exam.	
400	in Science (Medi., Engg., Pharmacy)	85.00		(Graduate Level) (By Sharma & Singh)	145.
499	Tips in Science (Medi., Engg., Pharmacy,	50.00		Senior/Junior Hindi Translator Exam.	160
498	Assertion and Reason in Science			SSC Section Officers (Audit)	1600
	(Medi., Engg., Pharmacy)	65.00	474	SSC Section Officers (Commercial)	1300

化聚合氯酚 网络海绵 海绵	r2 r				
CAT Combined Admission Exam.	230.00			, , , , a-r	
M.B.A. Admission Tests	295.00		3 Hindi-English	Essays & Letter W	riting 48.00
J.E.E. Hotel Management Exam.	180.00		4 Hindi-English	Essays	40.00
Combined Defence Services Exam.	170.00	38	7 Modern Essays	5	75.00
N.D.A. Exam. (By : Jain & Gunta)	205.00	36	4 Top Letters		60.00
Practice Work Book NDA Exam.	160.00	36:	5 Business Letter	rs	52.00
NDA/CDS Mathematics	115.00		1 -	rage of the	
MCA Test	450.00	20			
MCA Mathematics	360.00		Selected Bank		28.00
U.P. MCA Test	180.00		7 UPKAR'S Ban		40.00
BBA/BBM Entrance Exam.	180.00	200	3 Interview & Gr	oup Discussions	45.00
NTSE/STSE	738 I		コル	The Take	':,¤₁,
National Talent Search Exam (Class)	(1.140.00	446	Raj. B.Ed. Teac	her's Aptitude Test	25.00
Science Talent Search Exam. (Class VI	TI\ 80.00	445	U.P. B.Ed. Tead	hing Aptitude	30.00
GENERAL KNOWN	11) 00.00	426	M.P. B.Ed. Tear	ching Aptitude	30.00
GENERAL KNOWLEDGE		487	M.P. Pre B.Ed.	Entrance Exam.	140.00
General Knowledge, Current Affairs	14.00	494	Kendriya Vidya	laya Sangathan	
Objective General Knowledge	16.00		Teachers Recrui	tment Test	140.00
Ever Latest General Knowledge	75.00		Now Laborate	4 н	
Ultar Pradesh General Knowledge	60,00				**
GENERAL ENGLISHIC	(क्ट्यून	420	UGC Junior Res	earch Fellowship	
The second second second second second			and Lectureship	Exam	140 00
			UGC Chemistry		65.00
A Fresh Approach to General English	55.00		UGC Life Science		175 00
The recumique of Comprehension &		330	UGC Geography	, -	135 00
Precis Writing Modern Techniques of English Translation Learn to Write Correct English (E-H) Correct English How to Write It (E-E)	60.00	490	M.P. Eligibility	lest or em	
Translation			for Lectureship (SLEI)	145.00
Cam to Waite Co.	90.00		* - *	* *** ****	
Correct English (E-H)	155.00	495	Life Science Qui	7	45 00
	115.00		General Science		55 00
Learn to Write Correct English (English Reports During St.		304	QUIZ INDIA		70.00
(English-Bengali) By: B.B. Jain	125.00	335	Successful Caree	r Thought	50.00
ARITHMETIC/MATHS	;	395	The Art of Public	Speaking	35 00
Arithmetic for Competitive Frame	65.00		Create Super Inte		45 00
Valuet Ubicchive Arithmetic	140.00		The World of Idio		55 00
LA 5. Objective Math	410.00		(EngEngHind	1)	
Objective Instant Arithmetic	145.00			onyms and Antony	ms 48.00
Complete Arithmetic (For SSC)	118.00		The World of Pro		40.00
MIELAIGENG TEST			The World of Insp		42.00
Name to the second			The World of Idio		
New Paradigm Reasoning Tests	80.00		(EngEng.)		. 55 00
" "SHILLING A Periobological Tours	32.00		The World of Pre-	Suffs and Roots	70.00
The state of the s	33.00		Speak English Flu		62 00
A Fresh Approach to Reasoning Tests	95.00		Secrets of Life	-	35.00
Y15	HOCT	nr:	IADIT AL	un un ro	DATE
	MUSI	HEL	HABLE A	ND UP-TO-	
While ordering direct send	Rs. 50 b	by M.	O. on the foll	owing address	: :
AMAK PRAKASHAN 21	11A C.	ndarl	ii Rima Naa	or AGDA_28	2 002
hone: 531101 520055 22022	1111, 311	auesi	a maa ragi	11 , /\$ G 12/1-240.	~

UPKAR PRAKASHAN 2/11A, Swadeshi Bima Nagar, AGRA-282 Phone: 531101, 530966, 322930; Fax: (0562) 531940; e-mail: upkar1@sancharn cover story

The surge in the Services sector will conue and holds promise of sustaining overall onomic growth at 7 to 8 per cent in the years come. In most developed nations, the Serves sector has the leading role and in USA, it counts for 70-80 per cent of GNP. This secor also lends itself for widening of the tax ase for Government to mobilise additional esources in its quest for fiscal stability and onsolidation. The last four years (1997-2001) have seen not only characteristic ups and downs in agiculture, partly resulting from uneven spread of the monsoon, but also a distinct slowdown in industry. The average growth in agriculture is reduced to 1.5 per cent (against the

target of 3.5 to 4 per cent).

Lack of buoyancy in rural and urban demand, excessive capacity creation of earlier years, poor investment climate, higher lending rates of banks and financial institutions and infrastructural bottlenecks have led to the industrial downturn in the latter half of the 1990s. The 2001-02 "growth-friendly" budget, with a host of concessions and incentives for the corporate sector, and cuts in interest rate

was framed against this dismal background. Industry during 2000-01 ended with one of the lowest growth rates at 5 per cent after a temporary revival in the previous year. Industry must speed up its restructuring to face global competition with the lowering of tariff and non-tanif barriers by India. There has been no revival in investment in capital goods, which also face competition from imports. Some segments of manufacture have been going through the process of focusing on their

core competence in the globalised business

environment. This has also led to mergers and

acquisitions and downsizing in the private

In the Ninth Plan Period (1997-2002), the

corporate sector.

6 to 6.5 per cent.

economy's growth rate tell short of the revised 6.5 per cent. After a drop to five per cent in 1997-98, growth rates of 6.6 per cent, 6.4 per cent and 6 per cent (estimated.) have been recorded in the three following years ending March 2001. In the terminal year of the plan (2001-02), the revenue receipts budgeted for are based on 6.5 per cent growth, though the prospects at the end of the first quarter (April-June 2001) did not seem bright. The Reserve Bank estimates GDP growth, in 2001-02 to be

While the forecast of a normal monso in 2001, for the fourteenth year in succession may produce a bumper harvest, there we doubts whether a strong and sustained indurial recovery would be set in motion dur 2001-02. For, the budget did not give any significant thrust for public investment, the key to industrial revival in general. Continued lack of or slow progress in reforms in key sectors of infrastructure, especially power and transport, was also a negative factor. Basic goods industries were languishing while demand for machinery and equipment had not picked up

In 2001-02, the economy will have to cope

till the first quarter (April-June).

with not only the high oil prices but also a global downturn, which will affect trade and financial flows. Growth projections for the world economy have been scaled down for 2001 in the wake of the slowdown in U economy, the locomotive for global outpu and trade. Net external capital flows for do veloping countries in 2001 were also likely! decline though the volume of foreign direct investment (FDI) flows to developing cour tries might not be affected. But bulk of FI flows go to a few select countries in Asia an Latin America where multinational companies have already a strong presence. China, by the size of its market and the opening up of its coastal areas with special economic zones, has been the largest recipient of FDI of the order of 40-45 billion dollars? year for several years now. India currently to ceives only two to three billion dollars against a desized target of 10 billion dollars, in spile of policy liberalisation to allow FDI in all but

India's growth record and economic stability have given it a new stature in global capital markets but international financial institutions like IMF and the World Bank maintain that India could do much better if it controlled its public sector deficit (Centre and the States) which is 10 to 11 per cent of GDP. Such deficits are unsustainable as these keep borrowings at over 100,000 crores a year. Interest payments budgeted for in 2001-02 at Rs. 112,300 crores are disturbingly close to the projected fiscal deficit i.e. borrowing and other

habilities totalling Rs 116,314 crores during

the year. Of this, 67 per cent will go to finance

a couple of strategic sectors with higher par-

ticipation levels ranging from 26 to 100 per



LEARN ENGLISH WITH THE WORLD'S BESTSELLERS

ISBN	Title	F	Price			
Grammars/Vocabulary						
8175960299	Murphy/Essential English Grammar	Rs.	90			
0521002680	Naylor/Essential English Grammar, Supplementary Exercises	Rs.	80			
8185618518	Murphy/Intermediate English Grammar	Rs.	95			
8185618712 .	Hashemi/Intermediate English Grammar,					
	Supplementary Exercises	Rs.	65			
8175960671	Hewings/Advanced English Grammar	Rs.	125			
0521008522	Roach/English Phonetics and Phonology, 3rd ed.					
	(with 2 audio Cassettes)	Rs.	350			
052158647X	McCarthy/English Vocabulary in Use — Pre-intermediate					
	and Intermediate	Rs.	100			
0521779634	Redman/English Vocabulary in Use — Intermediate					
	and Advanced	Rs.	100			
Dictionaries						
0521009790	Cambridge Learner's Dictionary (with CD-ROM)		275			
0521009782	Cambridge Learner's Dictionary		175			
052177974X	Cambridge Dictionary of American English (with CD-ROM)		450			
0521588359	Cambridge International Dictionary of English		350			
0521599350	English Pronouncing Dictionary		130			
0521779782	Cambridge International Dictionary of Idioms		150			
0521634539	Cambridge International Dictionary of Phrasal Verbs	Rs.	150			
* Prices are subject to change without notice.						
Orders: Please send your orders alongwith advance payment through Demand Draft in favour of Foundation Books to any of the following addresses nearest to you (Packing and Postage free) or order through your local bookselies.						

consumption expenditure (revenue deficit). The interest payments account for 48 per cent of revenue receipts and nearly 33 per cent of total Government expenditure during 2001-02.

Many States are in fiscal stress in spite of larger devolution of Central resources to them and are unable to finance development without undertaking drastic reforms such as subsidy reduction, levy of user charges. downsizing administration for cuts in government expenditure and broadening the base of taxation to cover new areas including services. States' deficits had deteriorated from 2.5 per cent of GDP in 1995-96 to 4.9 per cent by 1999-2000. Several States, particularly in the Hindi-speaking belt, lag far behind the national average in economic and social indicators. Inter-state disparities in life expectancy, infant mortality, literacy, rate of population growth, sex ratio, per capita incomes and infrastructure pose major hurdles in achieving balanced development of the country.

Economic Trends and Concerns

Foodgrain production which rose to a record 208 million tonnes in 1999-2000 declined to 196 million tonnes in 2000-01 mainly due to drought conditions in several parts of the country. This reduction does not affect the plentiful supply position in the country. Indeed one of the major problems before Government is to bring down the unprecedented level of procured foodgrain stocks at over 50 million tonnes in June 2001. Unless radical changes are brought out in procurement pricing, buffer stocking and public distribution system, the food economy will go out of gear Government's food subsidy bill has been growing sizeably because of excessive procurement and low offtake in PDS Farmers are also hit by fall in grain prices and depend on Government to relieve them of stocks.

Continuing industrial slowdown is another problem before the Government. Tax and interest rate cuts in the new fiscal year had not had the desired effect in the early months of the fiscal year. An assumption is that a good monsoon will revive rural demand for goods later in the year.

With the removal of all quantitative restrictions on imports with effect from April 1, 2001, both farmers and manufactures have apprehensions of cheaper imports threaten-

ing their existence. While import tariffs for agricultural commodities have been raised to protect Indian farmers, the major issue is how to safeguard the country's' interests in the MTO protection of the country's interests in the major in the country is a second country in the c

W.T.O negotiations on Agriculture.

The annual rate of inflation which was 6 per cent in 1998-99 declined to 3.3 per cei in 1999-2000 but rose to 4.4 per cent in 200 01. The spurt was caused by the revision petroleum prices in March 2000. In 2001-0 rate of inflation was an uptrend, close to siper cent, by June 2001. A five to six per cer rate of inflation is relatively higher for glob comparison but manageable in the India economy without any adverse consequence

Issues and Priorities

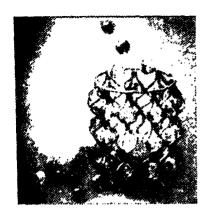
The persistence of high fiscal deficits both the State and Central levels have led to high debt service and Government's ability to use dertake public investment is in question. Be rowings due to high fiscal deficit have key real interest rates high, deterring private it vestment in the economy. A credible programme for fiscal improvement in the mediu term is called for. Centre's fiscal deficit use contained at 5.2 per cent of GDP and the Budget for 20001-02 has fixed a 4.7 per centarget. Unless all revenue assumptions incluing disinvestment receipts of Rs 12,000 crommaterialise, it will be difficult to adhere to that target.

In States, fiscal deterioration has deprive development of resources as planned ar many State Governments have been divering plan funds for payment of salaries to the employees. Centre-state fiscal relations have to be re-worked through the National Development Council with political commitment to put the fiscal house in order.

Fiscal reforms proposed include subsiding reductions, levy of user charges for public services (power, water, transport) wherever the are below economic cost, and broadening that as base to raise the Tax-GDP ratio from 14 to 17 per cent in the next five years.

Agriculture

Agriculture is the most crucial sector of the economy, for is provides food security, generates employment, helps to alleviate poverty, and contributes significantly to the country's exports. The role of agriculture has



It's not an SB Account.

But it's just as flexible.

It's not an FD Account.

But it earns you the same
high interest.

It's CorpClassic. The hi-returns, hi-liquidity account from CorpBank.



Hi-returns. Hi-liquidity: Hands-free.

How does it work? Unlike a normal SB Account, at the end of each day, CorpClassic automatically transfers funds from your SB Account, retaining a minimum of Rs.10,000, to a Term Deposit account of your own choice.

Which means better interest rate for better returns. And this amount in the Term Deposit is retained in units of Rs.1000. In case you need funds, the system will break the deposit unit which causes the lowest interest loss. And of course, you have the Classic edge-No hassles and an exclusive MIS that keeps you well informed of the transactions and status of the Account. A smart Account from CorpBank that helps you be smart about your money.

Enjoy the safety of a sound financial institution and experience the efficiency of an enterprising Bank.

For more details, contact our branch nearest to you.



cover story

me even more important in the context rrent global negotiations on bringing the sector into the multilateral trading syswhich will open up tremendous opporties for exports and imports at competiprices for food surplus and deficit coun-

griculture in India was almost entirely endent on monsoon at the time of Indedence (1947) but over the decades, remarkstrides have been made in the creation rrigation facilities, both major and minor. h the construction of large dams and cas and adoption of improved methods of tivation using chemical fertilisers and th-yielding seed varieties.

From 50 million tonnes in 1950, foodgrain eduction (rice, wheat, coarse grains and ises) had risen to 208 million tonnes in 99-2000, the highest on record. Such ineases have come mainly through higher elds per hectare especially since 1970s, as e gross area under cultivation has reached s limits. In fact, some decline in the area nder foodgrains has taken place and has beje a matter of concern. Agricultural outs subject to fluctuations from year to year to inadequate rainfall or drought condions in parts of the country. Thus, the odgrain production declined to an estimated 98 million tonnes in 2000-01, against a taret of 212 million tonnes, because of adverse ceather conditions.

By the beginning of 1980s, India had beome nearly self-sufficient in foodgrains and arge-scale imports had been done away with xcept for limited quantities in years of se-'ere drought as a safeguard against build-up of price pressures and for maintaining an adquate level of buffer stocks for the public disribution system. The final estimate of oodgrain production in 1999-2000 given by he Ministry of Agriculture is as follows: Rice 19.48 million tonnes; wheat 75.57 million onnes; coarse cereals 30.47 million tonnes and pulses 13.36 million tonnes. Output of commercial crops like cotton, oilseeds, ugarcane, fruits and vegetables and live stock products and fisheries have also recorded sigulticant increases over the decades. India is one of the major producers of coffee and tea. Coffee is cultivated in about 3.4 lakh hecares mainly spread over three southern states, larnataka, Kerala and Tamil Nadu. Of an estimated coffee production of 2.92 lakh tonnes in 1999-2000, India exported 1.6 lakh tonnes earning foreign exchange of 315 million dollars. India is the largest producer and consumer of tea, and accounts for 29 per cent of world production. Production in 1999 was 806 million kgs, of which 190 million kgs. was exported. The Commodity Boards for the plantation crops are being reorganised to focus on gaining higher productivity and comnetitiveness.

India is also the largest producer of coconut; holds leading position in cashewnut and grows a variety of spices like pepper, ginger, cardamom, turmeric etc. India has great potential in exports of products of horticulture, being the second largest producer of vegetables and having a share of 10 per cent in world

fruit crops.

Agriculture provides employment to 65 per cent of the work force. Despite a declining share in GDP, from 52 per cent in the 1950s to 26 per cent at present, agriculture is the single largest contributor to GDP. The average annual rate of growth in agriculture has fallen below the 4 to 4.5 per cent target set in five-year plans except in years of bumper har vests. In the 1990s, growth in agriculture re corded an average 3.3 per cent.

With a galloping population now at ove one billion, India needs to produce more food the present growth just barely keeps pace with population growth rate of 1.93 per cent Strong industrial growth depends on agricul ture, which provides raw materials as well a generates demand for consumer goods.

Notwithstanding self-sufficiency, food and nutrition security is not assured for all. Of ten, food does not reach where it is mos needed, highlighting failures in the supply chain. Production of coarse cereals, which the poor consume more, has stagnated at about 30 million tonnes while output of pulses ha fluctuated in the 11-14 million tonnes range trom the 1960s. India will need to product about 300 million tonnes of foodgrains by the end of the first decade of the 21" century to keep pace with the ever-increasing population.

India exports agricultural products, to the tune of 15 to 20 per cent of total exports. There is vast scope for increasing its share in global agriculture trade once the WTO negotiations lead to an agreed framework of rules and dis-



VELLORE INSTITUTE OF ECHNOLOGY

Deemed Universit

Vellore - 632 014, Tamil Nadu, India. Phone (0416) 243091 / 93, 245070, Fax: (0416) 243092 Email registrar@vit.ac.in visit us at www.vit.ac.in

Courses Offered

Bachelor of Technology (B. Tech) Degree Courses (4 years):

- 1. Bio-Technology 7. Mechanical Enga.
- 2. Information Technology 8. Chemical Enga.
- 3. Computer Science & Engg. 4. Electronics & Communication Engg.
- 5. Electrical & Electronics Engg.
- 6. Electronics & Instrumentation Engg.

Bachelor's Degree Courses (3 years):

2. B.Sc. (Computer Science) 1. B.C.A (Computer Applications)

Post Graduate Courses:

1. MBA (2 Years)

2. MCA (3 Years)

5. Mechatronics

6. Energy Systems Engg.

9.

Civil Engg.

Master of Technology (M. Tech.) Degree Courses (1½ years):

- 2. Computer Aided Design
- 2. Computer Science & Engg.
- 3.
- 7. Environmental Engg. Power Electronics 4. Master in Engineering Management

Master of Science (M.Sc. Degree) Courses:

- 3. M.Sc. Computer Science (2 years)
- 4. M.Sc. Software Engineering (5 years integrated programme)

Registrar

Agriculture in India was almost entirely dependent on monsoon at the time of Independence (1947) but over the decades, remarkable strides have been made in the creation of irrigation facilities, both major and minor, with the construction of large dams and canals and adoption of improved methods of cultivation using chemical fertilisers and high-yielding seed varieties.

From 50 million tonnes in 1950, foodgrain production (rice, wheat, coarse grains and pulses) had risen to 208 million tonnes in 1999-2000, the highest on record. Such increases have come mainly through higher yields per hectare especially since 1970s, as the gross area under cultivation has reached

its limits. In fact, some decline in the area der foodgrains has taken place and has beiic a matter of concern. Agricultural outis subject to fluctuations from year to year 112 to inadequate rainfall or drought condilions in parts of the country. Thus, the Godgrain production declined to an estimated 98 million tonnes in 2000-01, against a taret of 212 million tonnes, because of adverse weather conditions.

By the beginning of 1980s, India had become nearly self-sufficient in foodgrains and large-scale imports had been done away with except for limited quantities in years of severe drought as a safeguard against build-up of price pressures and for maintaining an adequate level of buffer stocks for the public distribution system. The final estimate of foodgrain production in 1999-2000 given by the Ministry of Agriculture is as follows: Rice 89.48 million tonnes; wheat 75.57 million tonnes; coarse cereals 30.47 million tonnes and pulses 13.36 million tonnes. Output of commercial crops like cotton, oilseeds, sugarcane, fruits and vegetables and live stock products and fisheries have also recorded significant increases over the decades. India is one of the major producers of coffee and tea.

Coffee is cultivated in about 3.4 lakh hectares mainly spread over three southern states, Karnataka, Kerala and Tamil Nadu, Of an es-

timated coffee production of 2.92 lakh tonne in 1999-2000, İndia exported 1.6 lakh tonnı earning foreign exchange of 315 million do lars. India is the largest producer and cor sumer of tea, and accounts for 29 per cent world production. Production in 1999 was 80 million kgs, of which 190 million kgs. w exported. The Commodity Boards for t plantation crops are being reorganised to cus on gaining higher productivity and competitiveness.

India is also the largest producer of coconut, holds leading position in cashewnut and grows a variety of spices like pepper, ginger, cardamom, turmeric etc. India has great potential in exports of products of horticulture, being the second largest producer of vegetables and having a share of 10 per cent in world

fruit crops.

Agriculture provides employment to 65 per cent of the work force. Despite a declining share in GDP, from 52 per cent in the 1950s to 26 per cent at present, agriculture is the single largest contributor to GDP. The average annual rate of growth in agriculture has fallen below the 4 to 4.5 per cent target set in five-year plans except in years of bumper harvests. In the 1990s, growth in agriculture recorded an average 3.3 per cent.

With a galloping population now at over one billion, India needs to produce more food the present growth just barely keeps pace with population growth rate_of 1.93 per cent Strong industrial growth depends on agricul ture, which provides raw materials as well a generates demand for consumer goods.

Notwithstanding self-sufficiency, food an nutrition security is not assured for all. O ten, food does not reach where it is mos nceded, highlighting failures in the suppl chain. Production of coarse cereals, which the poor consume more, has stagnated at abou 30 million tonnes while output of pulses ha fluctuated in the 11-14 million tonnes range from the 1960s. India will need to produc about 300 million tonnes of foodgrains by th end of the first decade of the 21st century keep pace with the ever-increasing popul

India exports agricultural products, to tl tune of 15 to 20 per cent of total exports. The is vast scope for increasing its share in glob agriculture trade once the WTO negotiation lead to an agreed framework of rules and di



ellore - 632 014, Tamil Nadu, India. Phone (0416) 243091 / 93, 245070, Fax: (0416) 243092 Email registrar@vit.ac.in visit us at www.vit.ac.in

Courses Offered

Bachelor of Technology (B. Tech) Degree Courses (4 years):

- Bio-Technology
- 2. Information Technology
- 3. Computer Science & Engg.
- 4. Electronics & Communication Engg.
- 5. Electrical & Electronics Engg.
- 6. Electronics & Instrumentation Engg.

- Mechanical Engg.
- 8. Chemical Engg.
- 9. Civil Enga.

Bachelor's Degree Courses (3 years):

1. B.C.A (Computer Applications)

2. B.Sc. (Computer Science)

Post Graduate Courses:

1. MBA (2 Years)

2. MCA (3 Years)

Master of Technology (M. Tech.) Degree Courses (1½ years):

2. Computer Aided Design

5. Mechatronics

2. Computer Science & Engg.

6. Energy Systems Engg.

3. Power Electronics

7. Environmental Engg.

4. Master in Engineering Management

Master of Science (M.Sc. Degree) Courses:

3. M.Sc. Computer Science (2 years)

4. M.Sc. Software Engineer are @aregramme)

become even more important in the context of current global negotiations on bringing the farm sector into the multilateral trading system, which will open up tremendous opportunities for exports and imports at competitive prices for food surplus and deficit countries.

Agriculture in India was almost entirely dependent on monsoon at the time of Independence (1947) but over the decades, remarkable strides have been made in the creation of irrigation facilities, both major and minor, with the construction of large dams and canals and adoption of improved methods of cultivation using chemical fertilisers and high-yielding seed varieties.

From 50 million tonnes in 1950, foodgrain production (rice, wheat, coarse grains and pulses) had risen to 208 million tonnes in 1999-2000, the highest on record. Such increases have come mainly through higher yields per hectare especially since 1970s, as the gross area under cultivation has reached its limits. In fact, some decline in the area under foodgrains has taken place and has become a matter of concern. Agricultural output is subject to fluctuations from year to year due to inadequate rainfall or drought conditions in parts of the country. Thus, the foodgrain production declined to an estimated 198 million tonnes in 2000-01, against a target of 212 million tonnes, because of adverse weather conditions.

By the beginning of 1980s, India had become nearly self-sufficient in foodgrains and large-scale imports had been done away with except for limited quantities in years of severe drought as a safeguard against build-up of price pressures and for maintaining an adequate level of buffer stocks for the public distribution system. The final estimate of foodgrain production in 1999-2000 given by the Ministry of Agriculture is as follows: Rice 89.48 million tonnes; wheat 75.57 million tonnes; coarse cereals 30.47 million tonnes and pulses 13.36 million tonnes. Output of commercial crops like cotton, oilseeds, sugarcane, fruits and vegetables and live stock products and fisheries have also recorded significant increases over the decades. India is one of the major producers of coffee and tea.

Coffee is cultivated in about 3.4 lakh hectares mainly spread over three southern states, Karnataka, Kerala and Tamil Nadu. Of an es-

timated coffee production of 2.92 lakh tonnes in 1999-2000, India exported 1.6 lakh tonnes earning foreign exchange of 315 million dollars. India is the largest producer and consumer of tea, and accounts for 29 per cent of world production. Production in 1999 was 806 million kgs, of which 190 million kgs, was exported. The Commodity Boards for the plantation crops are being reorganised to fo cus on gaining higher productivity and com petitiveness.

India is also the largest producer of coco nut; holds leading position in cashewnut and grows a variety of spices like pepper, ginger cardamom, turmeric etc. India has great po tential in exports of products of horticulture being the second largest producer of vegeta bles and having a share of 10 per cent in worl fruit crops.

Agriculture provides employment to 65 pt cent of the work force. Despite a declinin share in GDP, from 52 per cent in the 1950 to 26 per cent at present, agriculture is th single largest contributor to GDP. The aveage annual rate of growth in agriculture ha fallen below the 4 to 4.5 per cent target set i five-year plans except in years of bumper ha vests. In the 1990s, growth in agriculture re corded an average 3.3 per cent.

With a galloping population now at ove one billion, India needs to produce more foot the present growth just barely keeps pace wit population growth rate of 1.93 per cen Strong industrial growth depends on agricu ture, which provides raw materials as well a generates demand for consumer goods.

Notwithstanding self-sufficiency, food an nutrition security is not assured for all. O ten, food does not reach where it is mo! needed, highlighting failures in the suppl chain. Production of coarse cereals, which th poor consume more, has stagnated at abou 30 million tonnes while output of pulses hi fluctuated in the 11-14 million tonnes rang from the 1960s. India will need to produc about 300 million tonnes of foodgrains by th end of the first decade of the 21" century t keep pace with the ever-increasing populi tion.

India exports agricultural products, to th tune of 15 to 20 per cent of total exports. Ther is vast scope for increasing its share in glob: agriculture trade once the WTO negotiation lead to an agreed framework of rules and di-



VELLORE INSTITUTE OF ITECHNOLOGY

Deemed University ellore - 632 014, Tamil Nadu, India. Phone: (0416) 243091 / 93, 245070, Fax: (0416) 243092

Email registrar@vit.ac.in

visit us at www.vit.ac.in

Courses Offered

Bachelor of Technology (B. Tech) Degree Courses (4 years):

- 1. Bio-Technology
- 2. Information Technology
- 3. Computer Science & Engg. 4. Electronics & Communication Engg.
- 5. Electrical & Electronics Engg.
- 6. Electronics & Instrumentation Enga.

Bachelor's Degree Courses (3 years):

1. B.C.A (Computer Applications) 2. B.Sc. (Computer Science)

7. Mechanical Engg.

8. Chemical Engg.

9. Civil Enga.

Post Graduate Courses:

1. MBA (2 Years)

2. MCLIETES,

Master of Technology (M. Tech.) Degree Courses (13 years):

- 2. Computer Aided Design
- 2. Computer Science & Engg.
- 3. Power Electronics Master in Engineering Management
- 5. Mechatronics 6. Energy Systems Engs.
 - 7. Environmental Erec.

Master of Science (M.Sc. Degree Courses

- 3. M.Sc. Computer Science (2 years)
- 4. M.Sc. Software Engineering (E) pears integrated programme,

VIT - A place to learn: A chance to orong

oplines, India can export not only foodgrains but also a variety of agu-products, Development of food processing industry will greatly a ditate exports of value added products. In 1999, 2000, India's exports and Imports of agus ultural products (Including cereals) toalied 376 and 472 million dollars respectively.

Decline in Capital Formation

der the euphona of the Green Revolution of he sixtlex ded down, agriculture turned out o be a neglected sector, Public investment in griculture has been declining for long staryog funds for ensiting new capital assets in digation, power and rural intrastructure.

The shale of public sector investment in griculture came down from 35 per cent in 960 of to 23 per cent in 1998,99 while the hare of private investment went up from on leg cent to 20,4 per cent in this period,

The decline in capital formation in agriculnice has afterted employment in a sector, which offers the maximum scope for new nutants to the labom force in the final areas, So far, the strategy in agriculture has relied a subsidies (food and fertilisers) and increases minimum support prices for every crop seaon. This policy no doubt helped to achieve ligher levels of output of fibres and oil seeds but it has also created serious imbalances in the food economy as well as for agricultural levelopment in general.

The heavy subsidies by the Centre and the states have cut into exembal investments in ogiculture besides causing metherent use of eater and power for which even the cost is not recovered, it is possible to lower the level of subsidies gradually and provide the fauncies with cheaper credit and marketing and durage facilities, India mesels to give greater attention to both soil and water forestation. Meady in Northern India, there is a shrinking of ground water levels. Development of outershed on slopes and hilly terrains has to be accelerated in rain-test areas.

Associate, textiletions on movement of agdeuthnal commodifies both within and across states have abortest gains for farmers from free flowement, and lower prices for consumers, Removal of constraints in agriculture ses for will facilitate greater flow of private investment in rural intrasture including storage capacity.

Reforms in the agriculture sector to relations its strength in the Indian economy and equip

It to selve opportunities in the global market have become urgent, especially in the context of the phasing out of quantitative restrictions on imports by India, import farifs on a whole range of commodities—foodgrains, fulls, spices and edible oils—have been fixed at enhanced levels to give protection to domestic farmers but they are still below the bindings which india has made with WTO,

While wheat and rice can be treely imported with removal of quantitative restrictions on imports under the WTO regime, domestic producers have been given a measure of protection by imposition of customs duty on cereals and edible oils at rates which would make imports costlier.

National Agriculture Policy

India's agrarian economy is a mammoth enterprise with over 200 million farmers and farm workers who constitute the backbone for national progress. Given the untapped potets ttal tor growth through more efficient use of available land and water resources, technolony absorption and creation of infrastructure (Ittigation, roads and power), a National Agthaltine Policy has been trained by the Govcomment of India. It aims at a growth rate of over four per cent per annum, which would be well-spread across regions; it seeks to mastimise benefits from export of agricultural products. The policy will promote "sustainable agriculture" through economically viable use of natural resources saland water and genetic endowment, with concern for the environment. The incentive regime for agriculture would be such that it encourages capital tornation and improves the terms of trade with manufacturing sectors. A favourable price and trade regime for farmers, bridging of the gap between hitgation potential created and utilised, development of marketing intrastructure and storage facilities, and pilvate sector participation through contract tarming to facilitate technology transfer and capital inflows for diversification of agriculture are other teatmes of the policy.

Immediate Concerns

Paradoxically, two years of an upswing in agriculture (1990, 2000) have resulted in sharp tally in prices and distress to farmers in most party of the country. At the same time, an unpresedented pile-up of procured toodgrains

Career Torum MBA ENTRANCE

124 Career Forum students admitted to IIMs & XLRI last year

Focus CAT 2002

CATalyst

- The classroom written test module

CATpack

- Exhaustive study material

CATscan

- Simultaneous testing in Pune, Mumbai, Bangajore, New Delhi and Chennai

Common Ranking across all centres.

CATexpress

- The comprehensive personality test module Group Discussion and Interview training

CATclincher

- The intensive programme on receiving EV 22.

CAT course add-ons- Cursor -20 Mock tests for other premier (XLRI, FMS, IIFT, NITIE, IITSOM, SC. COLOR CETracer -20 Mock tests for CET VETERSTER

cflogic.com

Enriched with content, www.cflogic.com offers a web-based support system available to every student of our classroom and correspondence courses.

- OMR scanning of answersheets linked with the web-based performance tracking
- · Individual test scores for every student
- · Benchmark of performance against fellow competing students
- Benchmark of performance against pass successful students
- Advertisements of major B-schools
- Online Tests
- · Schedules & Batch Allocators
- Test scores by E-mail

Career Form = __

BANGALOPE 34 - ---12, Richmond Poet Barrell 55 TE

PUNE TO THE PUNE IN THE Centre If (and Figure 1) e reek we wee

YEY IE

प्रविर्धोधित। साहित्य सीरीज

आपको दे एक मजबूत आधार सफलता का सपना करके साकार

Olletan a Car of the			
सामान्य अध्ययन		808 विहार एवं झारखण्ड	60/-
731 सामान्य अध्ययन	650/-	७६२ राजस्थान	80/-
761 सामान्य अध्ययन	280/-	845 दिल्ली	40/-
९२१ व्यवहार न्यायाधीश (सामान्य अध्ययन)	280/-	703 समाजशास्त्र	120/-
883 वस्त्निष्ठ सामान्य अध्ययन	140/-	708 लोक प्रशासन	80/-
७३५ सामान्य विज्ञान	200/-	881 भारतीय इतिहास	120/-
891 सामान्य विज्ञान	80/-	851 भारतीय अर्थव्यवस्था	80/-
733 ऐतिहासिक मानचित्रावली	50/-	698 भारतीय संविधान एवं राजव्यवस्था	100/-
766 सामान्य युद्धि एवं तर्कशक्ति परीक्षण	100/-	888 भारतीय राजव्यवस्था	100/-
855 सामान्य वृद्धि परीक्षण	60/-	भारत की जनगणना, २००१	
806 भारत का संविधान	100/-	893 उ.प्र. एवं उत्तरांचल संस्करण	40/-
886 भारत का संविधान	30/-	895 राजस्थान संस्करण	40/-
्र सामान्य ज्ञान		898 म.प्र. एवं छत्तीसगढ़ संस्करण	80/-
724 सामान्य ज्ञान	280/-	909 विहार एवं झारखण्ड संस्करण	80/-
1938 सामान्य ज्ञान	80/-	सिविल सर्विसेज (प्रा.) परीक्षा	1
884 वस्तुनिष्ठ सामान्य ज्ञान	140/-	इतिहास/डॉ. ए. के. मित्तल	280/-
861 उत्तर प्रदेश सामान्य ज्ञान	120/-	लोक प्रशासन/डॉ. वी. एल. फड़िया	280/-
887 उत्तरांचल सामान्य ज्ञान	100/-	समाजशास्त्र/प्रो. गुप्ता एवं शर्मा	260/-
873 विहार सामान्य ज्ञान	120/-	राजनीति विज्ञान/डॉ. वी. एल. फड़िया	240/-
874 झारखण्ड सामान्य ज्ञान	100/-		200/-
875 मध्य प्रदेशि सामान्य ज्ञान	120/-	वाणिज्य/डॉ. पुरोहित, तातेड एवं शाह	160/-
876 छत्तीसगढ़ सामान्य ज्ञान	100/-	विधि/पवन वड़ाया	200/-
768 सामान्य ज्ञान (कौन, क्या, कहाँ ?)	25/-	वस्तुनिष्ठ गणित	175/-
809 सामान्य ज्ञान एवं व्यक्ति परिचय	25/-	कर्मचारी चयन आयोग	
एक अध्ययन		848 S.S.C. COMBINED PRELIMINARY	
737 उत्तर प्रदेश	50/-	EXAMINATION (MATRIC LEVEL POSTS)	150/-
803 उत्तरांचल	50/-) ⁸⁰² S.S.C. संयुक्त प्रा. पराक्षा (माट्रक)	140/-
722 मध्य प्रदेश	50/-	846 S.S.C. संयुक्त प्रा. परीक्षा	70'
800 छत्तीसगढ़	50/-	(भैट्रिक स्तरीय) प्रेक्टिस वर्क बुक	70/-
734 विहार	45/-	885 सामान्य वृद्धि एवं तर्कशक्ति परीक्षण	
Hospital Road Agra-3 Tol 251555	252400	प्रेक्टिस वर्क बुक	60/-
	3334UU	Fax 351568 Email: kanhaiya@ndb.vsni.	net.in

PUBLIC ADMINISTRATION

(For Civil Services Preliminary Examinations)
Dr. B.L. Fadia First Edn. 2002 Price Rs. 350/- pp. 850

PUBLIC

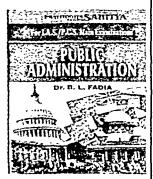
Momnificha non

(For Civil Services Preliminary Examinations) The book has been designed strictly according to the latest syllabi for civil service examinations. The detailed study material is followed by sets of various model objective question papers which have been prepared on the basis of the questions set in the previous years examination.

PUBLIC ADMINISTRATION

Dr. B.L. Fadia Third Edn. 2002 Price Rs. 200/- pp. 759

This book is analytical and examines the theories and framework of Public Administration as an automous discipline. The text provides an up-to-date, authoritative and very readable intoduction to its subjects.

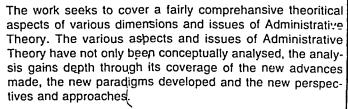


For LAS. P.C.S. Main Exeminations

ADMINISTRATIVE THEORY

Dr. B.L. Fadia First Edn. 2002 Price Rs. 100/- pp. 242

ADMINISTRATIVE THEORY





INDIAN GOVERNMENT AND POLITICS

Dr. B.L. Fadia Fifth Edn. 2002 Price Rs. 350/- pp. 978

The book critically examines the dynamics of federalism and centre-state relations. The topics on the President, Prime Minister, Governor, Judicial Review, Judicial Activism, Minority Politics in India, Electoral Reforms, Crime and Politics, The 13th Lok Sabha Elections and emerging political trends are discussed with relevant cases



SAHITYA BHAWAN PUBLICATIONS HELETITE BOOK

neld by state agencies totalling over 50 milion tonnes has added to the burdens on the Budget. Misery in the rural sector has been lramatised in farmers' suicides in different parts of the country. While the well-to-do farmers would have benefited from the hikes in support prices, small and marginal farmers, aced with difficulties in the matter of credit and obtaining the right type of inputs, have been in trouble. Their woes were heightened by fears about unrestricted flow of cheaper primary products from developed nations. which subsidise their farmers in the form of income support and export assistance. Government had increased the MSP (Minimum Support Prices) in 2000-01 with Rs 580 per

quintal for wheat and Rs 540 for paddy and

had procured even larger quantities of rice and

wheat in the two years than in the past by

spending Rs 30,000 crores. Given the low offtake in the public distribution system, accumulation of food stocks is resulting in a larger burden of food subsidy. The low offtake in PDS arises from the fact that market prices are lower and supplies are lentiful. Government has also not been able utilise any large volume of surplus stocks is food-for-work programmes in drought areas. In this unenviable situation, the Central Government had proposed decentralisation of food procurement and public distribution but States, by and large, are unwilling to undertake this responsibility and would like the present arrangement to continue. In view of this resistance and the apprehensions voiced over the implications of the WTO agreement on agriculture, a Committee of Chief Ministers and experts has been set up to examine all the issues relating to food policy as well as the WTO agreement on agriculture.

Agricultural prospects in 2001-01 appeared bright as the South-West Monsoon advanced, as forecast, at the beginning of June. For the thirteenth year in succession, a normal monsoon has been forecast by the Indian Meteorological Department.

Industrial Scene

Trends (1996-2001)

Industry has been on a slowdown since 1996-97 with a partial pick-up in growth in 1999-2000 to 6.7 per cent, and ended 2000-01' at a lower five per cent. The persistence of

has been attributed to various factors, chiefly, lack of demand in the economy and decline in investments, especially public investment in key sectors of infrastructure, which can be a catalyst for private corporate investments in new ventures, expansion and modernisation. This is reflected in the poor performance of capital goods and intermediate goods subsectors. The sharp rise in international oil prices since 1999 and competition from imports in certain products, the bottlenecks in existing infrastructure, and the cost of credit have been other constraining factors.

slow growth, akin to recessionary conditions,

The growth average of industry in the first four years of the Ninth Plan (1997-2001) has been 5.6 per cent against the plan target of 8.2 per cent per annum. In 1980s, India's industrial growth was buoyant at 7 to 8 per cent, and after the crisis of early 1990s, manufacturing hit a record 14 per cent in 1995-96. The first four years of the Ninth Plan have been a period of a virtual slump in industry. This has been carried into the first month (April) of 2001-02 when manufacturing recorded a mere 2.7 per cent growth (7.1 per cent in April 2000) The following Table brings out the extent

of slowdown since 1995-96:

				(per cent
Year	Overall Industrial growth	Mining	Manu- facturing	Electricit
1995-96	13.0	9.6	14,1	. 8.1
1996-97	6.1	-2.0	· 7.3	4.0
1997-98	6.7	5,9	6.7	6.6
1998-99	4.1	-1.7	4.1	6.5
1999-200	0 6.7	1.0	7.1	7.3
2000-01	5.0	3.6	5.3	4.0

(other than Consumer durables) which were ir double-digit growth in 1995-96 recorded lowe levels of performance in subsequent years.

Domestic production of capital goods has been exposed to competition and also held down by excessive capacity creation in the first half of 1990s.

Industry in India has been undergoing re structuring, along with mergers and acquisi tions in order to equip itself to face externa competition. Progress toward a competitive industrial structure has however been some what slow.

Stimulus to Industry

The Finance Minister Mr Yashwant Sinha had effected rationalisation of direct taxes in three budgets (1998-2001) with selective reductions in rates and considerable simplification of procedures, mainly to stimulate industrial recovery and higher output. The 2001-02 Budget was even more growth-friendly with incentives and direct tax reliefs, such as abolition of surcharge and lowering of dividend distribution tax. The focus was also on bringing down the cost of credit by lowering the interest rates over a wide spectrum. The Reserve Bank reduced the bank rate in March to seven per cent, effected cut in Cash Reserve Ratio (CRR) and took other measures to augment liquidity. Banks were asked to lower the prime lending rates for exporters and "creditworthy" borrowers.

The overall investment climate in the country has been affected not only by the sluggishness of aggregate demand and the excess capacity created in earlier years but also by the lack of vibrancy in the Stock Market. The capital market conditions in recent years have not been favourable for raising funds through public issues. The primary market has witnessed distinctly depressed conditions since 1995-96. Resource mobilisation by non-Government public limited companied declined consecutively from 1996-97. The secondary markets had also gone through a prolonged phase of subdued activity affecting adversely the primary market for new issues. With some improvement, aggregate resource mobilisation through prospectus and rights issues in 1999-2000 was Rs 7704 crore (inclusive of primary issues by public sector banks).

Infrastructure

After a decade of opening up of power generation for private sector and laying down of detailed policy framework including counterguarantees, initially for eight projects, India has not made significant advance in new capacity creation by the private sector. The Dabhol power project of M/s Enron in Maharashtra is the only major plant to be commissioned in the Ninth Plan (1997-2002) but even this has been caught up in disputes over tariffs and dues from power purchaser, the Maharashtra Electricity Board. Against the plan target of 40,245 MW as capacity addition

by the Centre, States and private parties, only 50 per cent of the target may be achieved by March 2002. In the Eighth Plan (1992-97), there was a similar big deficit over the target.

Coal output target has been scaled down from 412 million tonnes to 328 million tonnes in 2001-02. Coal production was 299 million tonnes in 1999-2000 and was higher at 309 million tonnes in 20001-01. Seventy per cent of coal consumption is for power generation. The six infrastructure industries (crude petroleum, petroleum products, coal, electricity, cement and steel) had a slower growth at 5.3 per cent in 2000-01 as against 9.1 per cent in the previous year. With indigenous crude production stagnating at 31-32 million tonnes India depends heavily on imports, for nearly 70 per cent of requirements. Cement outpu at 99.9 million tonnes in 2000-01 was lowe than the 100.4 million tonnes in the previ ous year. India produced 30.2 million tonne of finished steel (28.5 million tonnes previ ous year) in both the integrated plants (SAI and TISCO) and in the private sector stee units.

Public Sector

The role of public sector, which occupie the commanding heights of the economy for decades, has been shrinking in 1990s. Severa major industries exclusively reserved for pub lic sector have been taken off the list include ing Defence equipment, which has bee thrown open in May 2001 for private partic pation. The only items reserved for the pul lic sector now are Atomic Energy and Railwa Transport. The public undertakings constitut a vital segment of the economy and has bee the sole producer in areas like hydrocarbon. coal, lead and zinc and strategic minerals. has a predominant share in output of power generation and other heavy equipment as we as financial services like banking.

Public sector growth since 1951 can be seen in the number of enterprises rising from fivin 1951 to 240 at the end of March 2000. To tal investment in these enterprises stood a Rs 252,554 crores. Their turnover in 1995 2000 was Rs 389,310 crores, recording growth of 14 per cent over the previous year However, these enterprises with a mixed per formance have been giving an insignificant return on capital employed. Over 100 enterprises are loss making for several years. No

profit, after taxes and depreciation, was 3.74 per cent in 1999-2000.

Reform of the public sector to make it more efficient, autonomous, and accountable has been on the Government's economic agenda for a decade. Unlike many countries, India has not so far opted for outright privatisation of public sector units, though recently the concept of "strategic sale" of public enterprises to private firms with majority participation is being adopted. Disinvestment of a percentage of shares owned by the Government in public undertakings emerged as a policy option in the wake of economic liberalisation and structural reforms launched in 1991. The object was to raise some resources to reduce budgetary gaps and provide market discipline to the performance of public enterprises in general.

In a policy statement on public sector while presenting the Union Budget in February 2000, the Finance Minister, Mr Yashwant Sinha, had said the main elements were restructuring and reviving potentially viable PSUs; closing down PSUs which cannot be revived; bringing down Government equity in all non-strategic

PSUs to 26 per cent or lower, if necessary and fully protecting the interests of workers.

Government had divested a part of its ecuity from about two per cent to 49 per cent i 40 undertakings till March 1999. The larges chunk of over 40 per cent of government ecuity had been disinvested in Hindustan Petroleum Corporation, Videsh Sanchar Nigarr Mahanagar telephone Nigam, Indian Petrochemicals Corporation and Hindustan Ot ganic Chemicals. Between 1991-92 and 1995 2000, the total realisation through dis-investment was Rs 18, 368 crore against the targeted Rs 44,300 crore.

Employment in public enterprises has also come down from 2.18 million in 1991-92 to 1.85 million in 1999-2000. Around 2.7 lakh employees opted for the Voluntary Retirement Scheme (VRS) upto March 2000.

The public sector has played a pioneering role toward a self-reliant growth of the economy so far. But their operations have revealed several weaknesses which have to be overcome. The enterprises must have greater commercial orientation, earning profits to



SAROSH INSTITUTE OF HOTEL ADMINISTRATION

(MANAGED BY NITTE EDUCATION TRUST (R))
(Recognised by AICTE, New Delhi and Affiliated to Mangalore University
Pentagon Complex, Kankanady P.O., Mangalore - 575 002
Ph: 245140, Fax: (0824) 246700

Email: sihainst@hotmail.com Website: www//nittetrust.org/saroshindex.html

Sarosh Institute of Hotel Administration is a premier Institute offering courses Hotel Management and Hospitality Management. Located in Mangalore, the hub educational activities, the Institute is known for its professional attitude & atmospher All the students are given on the job training at Hotel Taj Manjarun and Hotel Pentage at Mangalore.

The Institute is the first one from Mangalore to be recognised by AICTE. New Del and has kept up its reputation by improving the education facilities over the years. The Institute offers following courses.

• 4 year course in Bachelor of Hotel Management (BHM)

- 2 year Hospitality Management Diploma, accredited by Educational Instituted American Hotel & Motel Association, U.S.A.
- 1 Year Certificate Course in Food Production
- 1 Year Certificate Course in Food & Beverage Service

At the successful students are very well placed in Indian & Foreign hotels & lasts. Exstudents have reached managerial positions in 2-4 years.

grow and fulfilling their objectives. The Government has to extend maximum autonomy to the enterprises and become a facilitator instead of treating them as extended arm of the Government. A right balance between autonomy and accountability of the enterprises needs to be struck without further delay.

Overall, the public undertakings of the Central Government will continue to make a major contribution to output in future and substantially to Gross Fixed Capital Formation (GFCF). Public sector (Government and public enterprises) at present has a share of 25 per cent in gross domestic product (GDP).

Foreign Trade

From April 1, 2001, India freed all its imports from quantitative restrictions (QRs) by completing the process of phased lifting of QRs over a five-year period, which covered 4,000 items of consumer interest. Adequate defences have, however, been built into the Export-Import policy framework to ensure that it is not a case of opening the "floodgates" for imports and that such imports entering even at higher tariff levels do not cause erious injury to domestic manufacturers or armers or the small-scale sector, which is more vulnerable to inflow of cheaper alternatives. There are safeguards for protection of domestic industry and agriculture through mechanisms, which are consistent with India's commitments to the World Trade Organisation. These can take the form of "safeguard duties" and "anti-dumping duties".

India's trade liberalisation began in 1991, as part of the fiscal adjustment-cum-structural reforms launched with IMF assistance to tide over the immediate balance of payment crisis. Till then, import licensing and controls with banned, restrictive and open lists had been the dominant features of the Indian economy coupled with export pessimism.

Trade policy reform was aimed at bringing down the extremely high tariffs on imports and easing restrictions on both imports and exports. The peak level of customs duty has been gradually brought down from 150 to 35 per cent and the Finance Minister Mr Yashwant Sinha has announced in his budget speech (March 2001) that it would be further reduced to 20 per cent within three years to become comparable to East Asian levels. In-

dia is still regarded as an overly protected economy.

In theory, India is one of the largest markets for imported goods, and though from April 1, 2001, all QRs stand removed, relatively high import duties and the limited absorptive capacity of consumers in general should not cause any big surge in imports of consumer goods. From combs and pens to a high range of electronic goods and automobiles, imports will be permitted but at a price which only the

affluent sections could have access to.

The final list of 715 items freed from QRs include agricultural (wheat, rice and coarse grains) and dairy (milk, cream and cheese) products, coffee, tea, copra, coconut oil, fruits and vegetables, meat varieties, some 300 textile items including woven fabrics and carpets, alcoholic drinks, petroleum products, industrial diamonds, audio equipment, colour television sets, new and second-hand automobiles and motor cycles.

Customs duty on a number of agriculture and other products has already been increased in the Union Budget for 2001-02. The tarif "bindings" (ceilings) India has made with WTO give substantial leverage for protection of farmers. Now that the second hand car can also be imported, customs and other duties applicable to them would be more than 180 per cent.

Experience so far has been that the remove of QRs in the last few years has not led to an flooding of imports. There are 330 sensitivitems of import, which would be monitored. The dismantling of QRs may begin to impact when economic activity gathers momentur in the coming years.

India by now would have emerged as a leading trading nation if pessimism had given was to export dynamism in the earlier decade. Despite the spread of export consciousness is more recent decades and policy and procedural liberalisations, India's share stuck at meagre 0.8 per cent is far lower than that deven some of the smaller South East Asia countries like Malaysia. China rapidly but up its exports to claim a three per cent sharin world trade. India hopes to gain a share of

at least one per cent by 2004-05.

The Exim Policy for 2001-02 seeks to giv an impetus to agricultural exports in the cortext of the current WTO negotiations on it tegrating agriculture into the multilaters.

trading system. Export restrictions on foodgrains, and a few other agriculture products had not been fully lifted till June 2001. From time to time, Government authorises limited quantities for export. India has tremendous potential for exports not only of foodgrains but also of fruits and vegetables and other processed foods. At present, agricultural products make up 18 to 20 per cent of total exports.

To offset any adverse impact of the elimination of the quota restrictions on the economy, canalisation of certain essential imports is being resorted to through the existing state trading enterprises. The items are wheat, rice, maize, petrol, diesel, aviation turbine fuel and urea. Secondly, imports of products of plant and animal origin would be subject to permits from the Ministry of Agriculture after an analysis based on sanitary and phyto-sanitary measures. Both these measures are permissible under WTO rules and disciplines.

Exim Policy 2001-New Features

a) Agricultural Export Zones: With a iew to providing remunerative returns to he farming community in a sustained manner, efforts will be made to secure improved access for agricultural products in the international market. State governments can identify product-specific Agri-export zones where services to the farmers would be provided. These will include post-harvest treatment, plant protection, processing, packaging and storage. Agri exporters will be entitled for recognition as Export House/Trading House/Star Trading House on achieving one-third of the threshold limit prescribed for exporters of goods.

(b) Special Economic Zones (SEZ): Taking the cue from China's success in export thrusts form its coastal areas, Special Economic Zones are being set up in select States. In these zones, manufacturing units are allowed duty free import/procurement from the rest of the country for development. Foreign direct investment is permitted for all manufacturing sectors except for a small negative list. No licence is required for setting up units for items reserved for small-scale industry (SSI). Units in SEZ are permitted to sell goods in the rest of the country subject to import tariff.

Exports and Imports

India's exports in 2000-2001 (April-March registered a growth of about 20 per cent in dollar terms, and were valued at 44.1 billior dollars as against 36.8 billion dollars in 1999-2000. In rupee terms, the exports were 8: 201674.10 crore (+26%). Imports totalled 49.8 billion dollars in 2000-01, mainly due to higher priced oil imports (15.6 billion dollars) Non-oil imports recorded a much lower growth. The trade deficit declined to 5.8 billion from the 12.9 billion dollars of the previous year (1999-2000).

Prospects in 2001-02 -

Having achieved a growth rate close to 20 per cent in 2000-01, the Commerce Ministry has set an export growth of 18 per cent for 2001-02. There are uncertainties for the world economy in the wake of the slowdown in USA the principal market for developing countries including India. (Indo-US trade turnover exceeds 12 billion dollars with a balance of around five billion dollars in India's favour.] The World Trade Organisation (WTO) has forecast a growth slowdown to seven per cent in global exports as against 12.5 per cent in 2000, one of the best in the last five decades. India's impressive exports in 2000-01 must be viewed in the context of this trade boom. For the current year, the depressed global growth prospects may make it difficult for India to achieve an 18 per cent growth.

Since India's non-oil imports are not growing as in the past, because of industrial stagnation and lack of investments, India will be able to manage with sustainable trade deficits over the next couple of years. The surge in oil prices since the latter half of 1999 pushed up the oil import bill to 15.6 billion dollars in 2000-01 as against 9.6 billion dollars in the previous year. This may further increase to 18-19 billion dollars in 2001-02 because of growing demand for petroleum products and rising level of dependence on crude imports to the extent of over 70 per cent of the country's requirements.

External Sector

A country's balance of payments has two parts: (1) a current account, comprising (i) outcome of exports and imports, and (ii) earnings and payments under 'invisibles'

(covering travel, transportation, insurance, private transfers, and miscellaneous services in which software export earnings are currently included); (2) a capital account giving the capital inflows and payments.

Since the balance of payments crisis in

the capital inflows and payments.

Since the balance of payments crisis in 1991, India embarked on a series of measures to liberalise trade regime, give greater thrust to exports, attract foreign investments and ensure exchange rate stability. Fiscal adjustment and structural reforms coupled with the lowering of tariffs and unification of exchange rate and convertibility of the rupee for current account transactions were all designed to strengthen the economic fundamentals and secure India's external viability.

The international community including NRIs responded positively as the country recorded higher growth rates and managed to contain the current account deficit within two per cent of GDP. Liberalisation of policies and procedures and structural reforms impressed investors and creditors, and influenced foreign exchange flows.

position has remained comfortable with increases in foreign exchange reserves after balancing the current account deficit with capital inflows. Between 1993-94 and 1995-96, exports grew by 18 to 20 per cent in dollar terms while there was slowdown in the latter half till 1999-2000 when there was a turnatound and export growth was 11.6 per cent.

A stronger revival followed in 2000-01

when exports touched 44 billion dollars reg-

Since 1996-97, the balance of payments

Istering a 20 per cent increase, but there were bigger trade deficits because of the steep rise in international oil prices. The oil import bill rose by 64 per cent to 10.5 billion dollars. Non-oil imports being at low level, the trade bal-

ance was manageable through the decade.

A strong surge in invisible receipts, the major elements of which are the remittances from Indians abroad of 10 to 12 billion dollars a year (private transfers) and software export earnings, helped to contain the current account deficit within 1 to 1.5 per cent of GDP in the latter half of the decade.

The surplus in capital account helped to take the level of foreign exchange reserves every year by 4 to 5 billion dollars on average. By June 2001, the foreign exchange reserves fother than gold and SDR) totalled 40 billion dollars, equivalent to 8 to 9 months of imports.

At 95-98 billion dollars, India's external debt does not give cause for concern because nearly 40 per cent of it is concessional and the ratio of short-term borrowings is relatively small. India's external debt as a ratio of GDP is low at 22 per cent and the ratio of debt servicing to current account earnings(exports and invisibles) has also lowered to 16 per cent from 30 per cent in 1991-92.

Overall, India today is stronger on the ex-

ternal side and the country was able to tide over the contagion effects of the Asian financial crisis of 1997 and the economic sanctions after Pokhran nuclear tests of 1998. The policy is to strengthen reserves with more of non-debt creating investment flows instead of repayable loans.

The rupee-dollar exchange rate has been coming under pressure on account of volatility in international currency markets and unanticipated developments such as the surge in oil prices. Exchange rate management will have to ensure that the rupee does not overshoot or become over-valued with serious consequences for its exports.

A good part of India's reserves is made up

of borrowings such as medium-term bonds repayable to NRIs over the next two to five years. India can no longer escape external shocks as its economy gets integrated with the rest of the world. For strong and healthy balance of payments position, India must have high economic growth with stability, improved fiscal balance, moderate inflation and a policy framework in tune with the global developments.

NRI Remittances

Since the eighties, a large number of developing countries have embarked upon liberalisation of their international transactions in invisibles. These cover trade, transportation, insurance, investment and private transfers. Invisibles have become more important with ongoing international efforts to liberalise trade in services.

Invisibles play an important role in India's external sector. Surpluses in the invisible account have provided valuable balance of payments support in the face of external shocks.

India liberalised the exchange rate regime and made rupee convertible for current account transactions in 1994.

Gold imports were liberalised and with

CHILDREN'S EDUCATION SOCIETY (REGD.)

(A Telugu Linguistic Minority Institution)

Administrative Office: 1st Phase, J. P. Nagar, Bangalore - 560 078, Karnataka, India Tel.: 6630855 Fax: 080-6548658 EPABX: 6552500-04 (5-Lines) E-mail: theoxford@vsnl.net Website: www.theoxford.org/edu





S. Narasaraju Chairman

Children's Education Society (Regd), Bangalore, was founded in 1974, by Sri S. NARASARAJU. Today it is a gigantic educational Institution of national stature and International repute. It has 28 units covering general education, Teacher's Training, Central Schools, Le., C.B.S.E. & I.C.S.E., Polytechnic. Professional Courses like Engineering, Dental, Nursing, Pharmacy, Physiotherapy, Hotel and Business Management. Science Degree Courses in Computer Science, Electronics, Bio-technology, Microbiology, Bio-Chemistry, Genetics, B.C.A. & Fashion and Apparel Design (FAD) and P.G.Courses like, M.B.A., M.C.A., M.Sc., (Microbiology), M.Sc., (Bio-technology), Master of Tourism Administration (M.T.A). It is fast reaching the status of mini-university. It is ideal for outside scholars to live and learn.

It has emerged as one of the premier educational institutions in Karnataka. Parents enter Oxford Campus, choose a course for their wards and get crowning success.

Oxford Institutions provide education from K.G. to P.G. level. Good accommodation with well ventilated class rooms, well equipped laboratories. Library books covering general and professional, to cater to the needs of both the students and the faculty. Well maintained separate hostel for boys & girls, comfortable transport system, attractive recreational facilities are provided for students of varied tastes and talents.

The Oxford Computer Laboratory has all the facilities suited to the fast growing needs of Information Technology. The conference half is quite spacious with all the latest good gadgets and fittings needed for lectures, conferences, celebrations etc. The faculty is the cream of highly devoted, gualified and experienced.

Sri S. NARASARAJU and his staff are highly disciplined, innovative, service-minded, and charged with academic interest. Oxfordites are ideal educational products, quite confident and fit to enter life and serve with love and affection.

The Oxford Educational Institutions courses are all recognised by the Government of Karnataka, Affiliated to Concerned Universities and Approved/Recognised by Apex bodies.

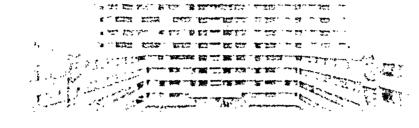
The Oxford Educational Institutions are synonymous with the term "TRIVENI", which symbolises Excellence, Variety and Perfection, which is much cherished and upheld by both the Founder and his team of teachers.

CHILDREN'S EDUCATION SOCIETY (REGD.)

CHILDREN'S EDUCATION SOCIETY (REGD.)

CHILDREN'S EDUCATION SOCIETY (REGD.)

EDUCATIONAL INSTITUTIONS



THE FOLLOWING INSTITUTIONS ARE RUN BY THE MANAGEMENT:

[All corress are recognised by the Coverement of Kernataka, Affiliated to Concerned Universities and Approved | Peccquised by Apen bad ex-

The Oxford College of Engineering (B.E, M.B.A & M.C.A)

The Oxford Dental College

The Oxford College of Nursing (B.Sc.Nursing & P.C.B.Sc.Nursing)

The Oxford School of Nursing

The Oxford College of Pharmacy

The Oxford Institute of Pharmacy

The Oxford College of Physiotherapy

The Oxford College of Hotel Management (B.H.M & M.T.A)

The Oxford College of Business Management (B.B.M., M.B.A & B.Com.Comp. Sc.)

The Oxford College of Science

M.C.A., M.Sc. in Micro-Biology & Bio-Technology, B.Sc. in Micro-Biology, Bio-Technology, Genetics, Bio-Chemistry, Computer Science, Electronics, Fashion and Apparel Design & B.C.A.

The Oxford Pre-University College

(P.C.M.B, P.C.M.Cs., P.C.M.E, H.E.B.A, B.E.A.Cs., H.E.P.S.)

The Oxford Polytechnic (Day & Evening)

The Oxford Senior Secondary School (C.B.S.E., New Delhi)

The Oxford English School (I.C.S.E, New Delhi)

Separate Hostel Accommodation for Boys & Girls
Excellent Fleet of Buses for Transport

improvements in the banking system, remittances by Indians abroad were shifted form formal channels (like 'hawala') to the banking system. Total 'invisible' receipts have been grow-

ing especially in the latter half of 1990s. The increases reflect the growing volume of NRI remittances. Total receipts under invisibles, net of payments by India for two-way flows, rose from 1620 million dollars in 1991-92 to 12.935 million dollars in 1999-2000.

Of this, private transfers (mainly NRI remittances) added upto 12290 million dollars. From 1996-97, the transfers were 11-12 billion dollars a year.

Private transfer receipts include current remittances for family maintenance as well as the repatriation of savings by Indians working abroad. Since 1992-93, they also include the inflow of gold and silver brought in by Indians returning from abroad in their baggage. Sixty per cent of the transfer receipts are inward remittances.

IT: Sector

a healthy growth of 65 per cent in rupee terms and 55 per cent in dollar terms over the previous year. India's target is to achieve exports of 50 billion dollars by 2008. Overall, the Indian IT software and serv-

crore (\$6.2 billion)during 2000-01 registering

ices industry was up 55 per cent at Rs 37,760 crore (\$8.26 billion) during 2000-01, compared to Rs 24,350 crore (\$5.7 billion) clocked in 1999-2000.

The domestic market software sales was Rs 9410 crore during 2000-01 with the growth rate slipping to 31 per cent as against 45 per cent in 1999-2000. Indian software and services exports accounted for 14 per cent of India's total exports of 44 billion dollars during 2000-01.

Software exports in 2000-02 to the US are projected to come down only marginally to 60 per cent and the exports to Europe are expected to grow only two per cent to 27 per cent, according to the National Association of Software and Service Companies (NASSCOM).

The Indian software professionals have created their brand image in the global market. Today, more than 260 of the Fortune 1000 companies, i.e. almost one out of every four

global giants, outsource their software require-

ments to India. India's software industry has

achieved a remarkable distinction for provid-

ing excellent quality. A large number of Indian software companies have acquired international quality certification. India's natural resource in today's knowl-

edge economy is its abundant technically skilled manpower. India has the second largest pool of English-speaking specific professionals in the world today, second only to the US. As on December 31, 2000, the software industry in India employed about 4,10,000 professionals, according to the Ministry of

Information Technology. Government policy is to encourage both software development and hardware manufacturing in the country by creating an appropriate environment. Government has rec ommended that each Ministry must allocate 2-3 per cent of its Budget on IT promotion, as a move towards integrating IT with Govern ment functioning and e-governance. It would

result in delivering better services to the citi zen by improving citizen-Government inter Indian software exports touched Rs 28,350 face and transparent working.

Financial Sector

There has been a phenomenal expansion of the banking and other segments of the fi nancial system in India since the late Sixtie following the nationalisation of 14 commer cial banks. In the 1990s, the sector wa deregulated and has become market-oriented with Government control over the financia system somewhat limited to laying down th broad parameters, and the Reserve Bank'o

India setting the rules of the game and fund tioning as the apex regulator and superviso of the financial system.

Banking is the core of the Indian financia system and commercial banks have the domi nant share in total financial assets and are th main source of financing for the private cor

porate sector. They also channel a sizeabl share of household savings to the public sec tor, mainly Government, through th statutorily fixed ratios and investments in

approved securities. Between 1970 and 2000, bank deposit

increased at a compound annual average rat of 17.8 per cent while credit expanded at th rate of 16.3 per cent. Bank investments is

government and other approved securitie

Carve a Career through informative books from

National Book Trust, India

A CAREER IN BOOK PUBLISHING

Samuel Israel

Rs 40.00

The book gives an idea of the nature of jobs, responsibilities and qualifications called for a publishing professional.

EDITORS ON EDITING

HY Sharada Prasad & others

Rs 23.00

This book grew out of a series of talks by some well-known editors on various processes involved in book publishing.

PUBLIC ADMINISTRATION IN INDIA

Padma Ramachandran

Rs 60.00

Traces the history of public administration in

MASTERPIECES OF INDIAN LITERATURE (VOL 1-III)

KM George (Ed.)

Rs 1000.00 (set)

An invaluable guide towards the understanding and appreciation of Indian literature in its totality.

ADVERTISING AS A CAREER

Subrata Banerjee

Rs 47.00

The book provides a detailed account of different aspects of advertising and allied professions.

HISTORY OF PRINTING AND PUBLISHING IN INDIA (VOL 1-III)

BS Kesavan

Rs 399.00 (set)

A detailed account of the spread and development of printing and publishing in India.

FREEDOM STRUGGLE

Bipan Chandra & others

Rs 42.00

A lucidly written book on India's freedom struggle, its history, development and the diverse forces which contributed to it.

INDIAN SOCIETY

S C Dube

Rs 27.00

The book discusses various aspects of Indian society, the major trends of change and their impact, illuminating the complex social realities of India.

SAMAANTAR KOSH

Arvind & Kusum Kumar

Rs 400.00

The first ever Hindi thesaurus which has won the Maharashtra Bharati Akhil Bharatiya Hindi Sewa Puraskar from Maharashtra Rajya Hindi Sahitya Akademi. The award came with a cash of rupees one lakh.

recorded growth of 18.8 per cent per annum. Aggregate deposits at the end of March 2000 were Rs 8,13,344 crores while bank credit outstanding on that date was Rs 4,35,958 crores and investments Rs 3,08,944 crores.

In the 1990s, Governments licensed nine new private banks, and with increased diversification in recent years, banks in both public and private sectors have been providing a wide range of financial services. The banking system operating within the ambit of the monetary and credit policy of the Reserve Bank, plays a critical role in the production process by providing credit inputs in line with the sectoral requirements of the economy.

The banking system includes cooperative banks but it is the commercial banks, Indian and foreign, which are dominant in terms of deposits, advances and investments. The public sector banks (in which the Government holds not less than 51 per cent of equity) account for more than four-fifths of the total assets of all scheduled commercial banks.

There are now 106 banking entities—27 in public sector(including SBI and its seven subsidiaries), 45 foreign banks and 34 Indian private sector banks including nine, which came into existence after 1991. There are about 68,000 bank offices spread all over India. The credit-deposit ratio on March 31, 2000 stood at 57.1 per cent as against 54.8 per cent in March 1999.

The banking sector recorded an increase in operating profits to Rs 18,423 crores and net profits (after tax) to Rs 7306 crores in 1999-2000. Foreign and private banks had a higher rate of growth in profitability.

The banking system has been faced with the problem of NPAs (non-performing assets or outstanding dues to banks from borrowers) which stood at Rs 60,841 crores (gross) at end-March 2000 but the net NPAs were only Rs 30,152 crores or 6.8 per cent of net advances. For public sector banks, it was 7.4 per cent and for private sector 5.6 per cent. A number of Debt Recovery Tribunals have been set up to expedite recoveries from borrowers.

Government had made provisions in 1990s for recapitalising some of the banks to help fulfill the capital adequacy norm which was one of the prudential norms proposed for the banking system in the first report of the Narasimha Committee on Financial Sector Reform (1991-92). Government has decided

to introduce legislation to bring down its own shareholding in banks to 33 per cent as the minimum to enable banks to access the capital market at home and abroad and augment the capital base as part of the 'second' generation reforms.

Outside the banking system are the all India term lending financial institutions, which are increasingly moving toward 'universa' banking' and have themselves set up subsidi ary banks. These institutions have for long been financing industrial development, and other specialised financial institutions have also been set up in the 1990s providing depth to the financial intermediation. Competition has been enhanced by the emergence of new institutions and the segmentation of the fi nancial markets.

Monetisation of the economy gathered momentum after independence with the spread of banking to rural areas and the share of banking and insurance in GDP has moved upto 4.7 per cent from 2.2 per cent in the 1970s. In the Services sector, banking and in surance has a share of nearly 12 per cent.

According to the Reserve Bank, the financial sector development has led to improve ment of the economy's saving rate. A large part of the financial savings of household sector is in bank deposits, which accounted for over 16 per cent of gross domestic saving. Insurance, provident fund and pension funds have also become the avenues for financial savings of the household sector in the form of contractual savings.

Monetary Policy in 2001-02

As part of financial sector reform, interest rates which were administered by the Reserve Bank of India were deregulated except for small borrowers in the "priority sector" to give a measure of freedom to banks to charge interest rates which would give them a better return overall. Lendable resources of banks were enlarged with lowering of stipulations in regard to statutory liquidity and Cash Reserve Ratios.

Responding to the corporate sector's contention that high interest rates were a disincentive for investments, the Reserve Bank in October 2001, brought down the Bank Rate, the benchmark for interest rate adjustments, from 7 to 6.5 per cent, the lowest since May 1973. CRR was also reduced to increase

The University of Western Sydney Mark Akson

Upward mobility begins here.

Get an MBA degree, awarded directly by the University of Western Sydney. Recognised by the International Association for Management Education and accepted globally, an MBA at Akson - the India Centre for the University of Western Sydney can make the big difference to your career... and your life. Go places with a global MBA. Get into Akson,

- Akson scholarships for deserving candidates.
- Placement assistance provided (previous batches fully placed).
- Iwinning programme on the anvil.

For more information contact our associate advisor on 080-3532278 / 3532289 or 9845202971

とかあれ degree in any discipline シェロッ through professional apitude test.





AKSON

AKSON INSTITUTE FOR MANAGEMENT STUD'ES

India centre for U

H. Ch C Main, 7th cross, HMT Layout, R T Nagar, Bangalore - 560 032. Ph: 3532278, 35 3432310, 9845202971 Email: aimsb@blr.vsnl.nct.in http://www.aksononlin

lendable resources with banks to increase liquidity

In October, 2001 RBI lowered GDP projection to 5-6% from 6-6.5% due to slow industrial and export growth. The cash reserve ratio (CRR), reflecting cash balances which banks have to park with RBI as a prudential measure, was lowered by an unbelievable 200 basis points to 5.5 per cent-Just a little above

the 3 per cent level allowed by the law. The lower CRR will release Rs. 8000 crore in the system-a move that will help the government, which is expected to borrow 10-15 per cent more than the target.

State Finances

In recent years, the deterioration in State finances has become a problem of great concern as it has caused a severe erosion in budget support for development and led to large borrowings even to meet current expenditures, mainly salaries to employees and interest payments.

The scenario is indeed bleak for the reform agenda at the state level without which neither the State finances could improve nor would State governments be able to deliver basic services to the people. In present conditions, States are not even able to maintain existing public assets, let alone creating new facilities and expanding infrastructure on the required scale.

Unlike the Centre which had a surplus on revenue account in the budget till 1978-79, the States seemed to be managing their finances relatively better but in the 1990s, they also began to run revenue deficits which increased their gross fiscal deficit to three per cent of GDP.

In the aftermath of the implementation of the higher pay scales as determined by the Centre after the receipt of the Fifth Pay Commission report, the States have come to grief. The fiscal deficit of all states together crossed four per cent in 1998-99 and touched a peak of 4.9 per cent in 1999-2000 while their total outstanding debt to GDP also reached a high level of 21.5 per cent. The national level of public sector deficit

(Centre and States together) crossed the 10 per cent of GDP and this has become an area of concern to international credit institutions. l'iscal restructuring has been given primacy in the reforms they have been urging on India besides many other developing countries.

The Centre is simply not in a position to

bail out any state, for, it is borrowing heavily to meet the massive gaps in revenue-expenditure which have resulted in reduced levels of capital spending. Like the Centre, the States borrow from the market, as agreed beforehand with the Reserve Bank of India, and with increasing borrowings and larger interest payment outgo, the fiscal position of the States can hardly improve without drastic measures such as levy of user charges for all services, widening of the tax base, closure of loss-making enterprises and downsizing of the administration.

Centre-State fiscal relations are governed by the devolution to States of taxes collected by the Centre on the basis of formula worked out by Finance Commissions, which are appointed every five years, as mandated by the Constitution. Till recently, only personal income tax and Union excise were sharable with States in ratios as proposed by the Finance Commission after assessing the revenue and expenditure requirements of States for a five-year period and providing for filling the gaps.

The Tenth Finance Commission (1995 2000) had proposed that all taxes, direct and indirect, levied by the Centre should be share with states so that the States get at least 29 pe cent of the total tax receipts of the Centre. Th change in formula has been effected to through

a constitutional amendment by Parliament. The Eleventh Finance Commission (EFC whose recommendations take effect from 2000-01, has fixed the total share at 29.5 pc cent. EFC also recommended a significant higher level of grants-in-aid to deficit state under Article 275(1) of the Constitution.

On the basis of revenue assumptions relate to estimated GDP growth over the five year 2000-05, the States would receive Rs. 376,31 crores by way of tax devolution (or 28 per cer of gross revenue receipts of the Centre). I addition, 1.5 per cent of net proceeds shareable Central taxes/duties in a year ma be distributed among such states, which o not levy sales on sugar, tobacco and textil during that year. The grants-in-aid would l of the order of Rs 35, 359 crores for five year for States (15), which will have deficits eve after the devolution of central tax revenue These amounts will be progressively tapering off after the first year's (2000-01) provision

Rs 10,154 crores. The recommendations are being impl

AY SUC	4	55	SAY	N	E	U	<u>J LIG</u>	HT
culars Price (Rs.)	Particu	lars I	rice (R	5.)]	Particu	lars I	rice (Rs.
FOREIGN REPRINTS		FO	R ENGG., IIT/MED	ICAL	•		OBJECTIVE SERI	<u> </u>
ness Guide to Effective Writing	39		EXAMS			N-233	Objective Physics	50
s Player's Handbook	90	N-217	I.I.T. Solved Papers				Objective Chemistry	75
to Hypnotise Yourself & Others	60		(1990-2001)		· •		Objective Botany	50
to Develop a Superpower Memory	60		I.I.T. Screening Test Gu				Objective Zoology	50
to Read Palms	35		Medical Entrance Guid	e 49	95		Objective Mathematics	69 65
ENGLISH IMPROVEMENT		N-314	All India Pre-Medical/	2:	55		Objective Biology Objective English	60
28 Grammar & Composition	45	N 272	Pre-Dental (CBSE) Maharashtra Medical E		99 99		Objective Arithmetic	6
41 General English	50		CEEE Guide (Delhi Col		"		Objective General Kno	
49 20 Days to English Vocabular	y 35	14-311	of Engg.)		55		QUIZ BOOKS	
73 Better English	35	CIUI	E FOR RAILWAY			N.345	G.K. Quiz	4:
How to Write Effective English							India Quiz	45
30 Words Often Confused	45		Railways Recruitment I		85	N-347	2	4
136 Spoken English	50 45	ł	रेलवे रिक्रूटमेंट बोर्ड परी	क्षा :	55		Geography Quiz	4
338 A to Z Quotations - 339 A to Z Idioms and Phrases	45 45	GU	DES FOR BANK E	XAMS		ſ	Science Quiz	4
33 A to Z Proverbs	45	N-110	State Bank Probational	 TY		1	Computer Quiz	40
341 A to Z Synonyms & Antonyms			Officers	•	95	N-370	The World Firsts	50
355 Correct English Usage	50	N-229	Bank Probationary Offi	cers 1	95		COMPUTER BOO	KS
351 Basic English Grammar for		N-301	Bank Clerical Exams		85	N-359	Computer for Beginner	
Schools	50	, FO	R OTHER COMPE	TITIVE			Internet Essentials	160
354 Dictionary of Idioms & Phrase	es75		EXAMS				E-Commerce	8
362 Dictionary of Quotations	95	N-149	NDA Examination Guid	ie 2	55		Browsers: Netscape N	
353 Instant Vocabulary Builder	65		S.S.C. Clerks Grade E	_	85	N-380	The How & Why of Inte	met 8
376 Dictionary of Synonyms &			CAT Guide		35		DICTIONARIES	
Antonyms	115	N-225	Hotel Management	1	95	N-204	English-Hindi	75
essay writing		N-251	NTSE (National Talent			N-262	English-Marathi (Pocke	et)
F343 School Essays, Letters &		1	Search)		75	((2 Colour)	35
Paragraphs	35		Mental & Reasoning A		60	N-302	English-Hindi (Pocket)	40
1361 School Essays, Letters	-00	•	MBA Entr. Exam Guide		55		MISCELLANEOU	s
(for Juniors) 1341 136 Essays for College &	30		CDS Exam Guide Test of Reasoning		95 60	N-176	Numerology for Everyb	
Compet tive Exams	85	1	BBS Entr. Exam Guide		50		You and Your Hand	25
#355 Advanced Essays for College	, 00	,	MAT Guide		275		How to Play Chess	40
and Competitive Exams	125		NIFT/NID Exam Guide		75	N-278	Secrets of Success	65
LETTER WRITING	,		MCA Guide		340	N-281		
Applications for Better Jobs	25	N-364	Success in Interviews		55	N-291	How to Solve Your Pers	
Burress Letters	35 35		BCA Entr. Exam Guide	-	75		Problems	40
Sefected Letters	50	14-301	BBA/BBM Entr. Guide		75		How to Achieve Total S	
10 Love Letters	35	M-308	SSC (Prel.) Graduate		85	N-319	How to be a Super Sale	
Top Every Day Letters	45	14-369	SSC (Prel.) Matric Lev BIT Entr. Exam Guide		75		Hypnotism and Yourself How to Develop a Power	35
Pid IIII Letters for All Occasion		-			75	1523	Personality	45
PCIA How to Write Better Letters	45	E	.K., CURRENT AF	AIRS		N-324	Palmistry for All	25
217 Perfect Letter Writer	50		G.K. & Current Affairs		65	N-349	The Art of Public Speak	na 50
17 Model Business Letters 331 Dynamic Letters	65		Handbook of G.K.	^1. .	35	N-356	Book of Baby Names	15
332 Superb Business Letters	60		General Intelligence for t			N-360	Jokes for All	ž.
	50		सामान्य जान		65	N-375	Treasure of Jokes	Œ
NOTE OF BLOTT ENC	YCI	OPA	EDIA OF GEN	ERAL	K	NOU	LEDGE	

Dynamic Letters 60 N-304 General Intelligence for Students 50 N-360 Jokes for All N-375 Treasure of Jokes N-375 Treasure of J

58 | cover story

taxes and duties. Over the years, the States have been demanding a larger slice of the national cake, and some of the Chief Ministers, especially the Andhra Pradesh Chief Minister Mr Chandrababu Naidu had expressed reservations over the Eleventh Finance Commission's scheme. He is of the view that Centre should give away 50 per cent of its tax receipts. EFC had set a limit of 37.5 per cent for all transfers, plan and non-plan.

mented by the Centre and the Budget for 2000-

01 provided for Rs 52,418 crores (R.E) and the

Budget for the current fiscal (2001-02) provides

for Rs 61,618 crores as States' share of Central

The other major avenue of transfer of Central resources to States is through loans and grants for the Plan via the Planning Commission on the basis of a modified Gadgil Formula.

The Central assistance for States/UTs in 2001-

02 is Rs 37,640 crores, fifty per cent of which is in grants. In addition, the Centre extends about Rs 8000 crores of grants for the Centrally Sponsored Schemes operated by States. Both the 11th Finance Commission and the

Planning Commission have laid out fiscal reforms for the Centre and the States by which there should be no revenue deficit at the State level while it would be only one per cent of GDP at the Centre in 2004-05. Fiscal deficits of the Centre and States would stand reduced to 4.5 and 2.5 per cent respectively. The Centre is exerting pressure on States to enter into Memorandum of Understanding

which links assistance to progress with reforms. These MoUs were signed by 11 states in 1999. 2000, but the budgeted deficit of 3.9 per cent was exceeded and stood at 4.9 per cent of GDP, notwithstanding some efforts by some states to increase revenue and reduce expenditure. Total outstanding debt and other liabilities of States stood at Rs 417, 998 crores at the end of March International financial institutions like the

World Bank and the Asian Development Bank have focussed on state-level reforms and extended loans to States undertaking economic restructuring programmes. The World Bank is assisting Andhra Pradesh and Uttar Pradesh and is extending it to other states including Kamataka. The Asian Development Bank has similar programmes with Gujarat and Madhya Pradesh.

Meanwhile, most States are in a critical situation and are using plan funds for payment of salaries. With negative contribution from budget for state plans, State governments' been borrowing more and more to for non-plan revenue expenditures rather capital expenditure. If reckless be 100 100 kept in check, the Planning Comwarns, some states may be forced to decide financial emergency in the 10th plan.

Plan Progress

Ninth Five-Year Plan (1997-2002): Ninth Five-Year Plan (1997-2002) with a phase of deceleration of the economy from 1997-98, and GDP growth fell targeted 6.5 per cent on average. G in the first four years (1997-2001) were 5,6 and 6 percent respectively giving an a 6.1 per cent. Not only growth rates in agricul

ture and industry but also foodgrain and "

production targets could not be met. Domestic savings and investment perform ance belied plan assumptions, mainly due Government dis-savings despite the satisfaction tory trend in household savings (19.8 per cer of GDP). Decline in aggregate demand, lac of new investments and a competitive env ronment depressed the manufacturing sect and a fairly steady services sector helped

sustain GDP growth at six per cent.

The dismal performance in exports in the first two years gave place to a strong reviv in the subsequent two years ending Man 2001, so that an eight per cent average cou be achieved. Overall, the inflationary pressu could be contained within the 5 to 6 per ce range despite revision of petroleum produ prices (March 2000) due to the surge in int national oil prices. With modest flows of ternal capital, mainly foreign direct inve ment and portfolio flows, together with t bonds floated for NRI subscriptions and I foreign currency deposits, India's foreign change reserves (other than gold and SI

dollars as on October19, 2001.

India's balance of payments position in Ninth Plan Period continued to be favoura with the steady building of reserves throu the decade. The current account deficit to contained within 1.5 per cent of GDP beca of substantial inward remittances by Indi abroad and other invisible receipts.

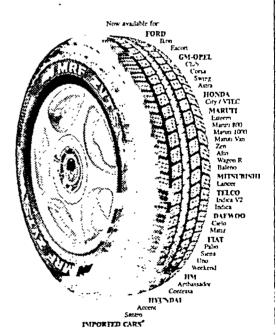
were steadily rising and stood at 45 bill

The growth outlook for the final year of Plan (2001-02) was mixed, because of halt industrial recovery while a normal monsc



Float on MRF ZVTS

The most comfortable radial ever





Mileage and a Comfortable ride on Indian roads? Is it possible? Yes But only if you are on MRF, the tyre that has mastered Indian roads. In fact with MRF ZVTS, you get the reliability, mileage and control MRF has always given you. Plus unmatched comfort. So experience the new force on Indian roads. Get MRF ZVTS, and float

MRF - India's Largest Tyre Company - 12th Largest in the World

In case, you need assistance to procure these comfortable tyres please get in such with us at Customer Reach-Out Center, MRF Ltd., 124 Greams Road, Chennal 600 006 or e-mail us a morma, est in mile Please do provide us your name, address and phone number so that we can service your rigid or entry prompt of

* Please tack with he prairies. MRH little

in 2001 was likely to improve agricultural prospects. Helped by the buoyancy of the Services sector, GDP growth was estimated at 6 to 6.5 per cent in 2001-02.

Even a six per cent average growth through the 1990s has not generated employment in the organised sector. Job opportunities have largely occurred in the unorganised sector, in urban and rural areas. Liberalisation and advances in information technology sectors have however created more demand for skilled professionals.

Tenth Five Year Plan (2002-2007): It is against the background of a deceleration in the primary and secondary sectors of the economy in the Ninth Plan period (1997-2002) that the Planning Commission has proposed an outline of the Tenth Plan (2002-07), with emphasis on corrective measures of a drastic nature to enable Government to increase investments. It also sets down a tough reform agenda for the economy. Fiscal deterioration, unemployment, lack of headway in infrastructure development and industry and inter-state social disparities are the areas of concern which have to be

addressed with determination.

On the social side, poverty remains pervasive, the infant mortality rate has stagnated at 72 per 1000 for several years, the literacy rate is still low though improving, and sixty per cent of rural and 20 per cent of urban households have no power connections. The Planning Commission has proposed specific and "monitorable" targets such as reduction of poverty ratio to 20 per cent by 2007 (from the present 26 per cent, according to one estimation and 36 per another), provision of gainful employment for addition to labour force dur-

ing the plan period, increase in literacy rates to 72 per cent by 2007, and provision of drinking water to all villages by 2012.

The Tenth Plan will aim at GDP growth at 8 per cent, a target, which is ambitious in relation to current trends. Though savings and investment rates did not move up in the Ninth Plan, the outline paper proposes fairly high targets for domestic savings (29.8 per cent of GDP) and investment (32.6 per cent) as against the 23-24 per cent in the final years of the Ninth Plan.

The underlying assumption is that as the country moves toward a market economy, there would be increase in the savings rate of private corporate sector. But the Central Government would have to reduce revenue expenditure and fiscal deficit to be able to generate 1.7 per cent of GDP as savings against the current dis-saving. Another 2.9 per cent of GDP would be the contribution of public enterprises.

The overall growth rate (8 per cent) is based on agriculture and industry recording increases by 4.5 and 10 per cent respectively in the five-year period.

The thrust of the plan is on accelerating the process of reform over a wide front instead of merely being a resource allocation plan. Both the Centre and States would have to raise their tax-GDP ratio by widening the base of taxation. Revenues can grow by bringing the Services sector—which contributes more than 50 per cent to GDP—along with goods under a value added tax at the national level.

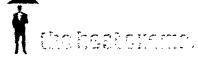
Other measures considered essentially by the Planning Commission are speedy completion of ongoing projects, faster privatisation to yield Rs 16,000—17,000 ctores a year and spreading reforms to agriculture and labour relations.

Financing Targets for the Tenth Plan (2002-07)

Augrana	Base Year	Target
Average GDP growth rate (% p.a) Gross Investment Rate (% GDP)	6.50	8.00
ICOR (Input-Capital Output Ratio)	27.00	32.60
Current Account Deficit (% GDP)	4.28	4.08
Gross Domestic Savings (of which)	1.50	2.80
Public Sector (%GDP)	26.30	29.80
Covernment	2.40	4.60
Public Enterprises	-0.60	1.70
Private Corporate Contac	3.00	2.90
Household Sector	4.90	5,80
	19.00	19.40



ingernragger



You.

If this is your idea of tackling competition in competitive exams, you better think twice. To tackle competition, there is a name, trusted all over the nation, that can help you optimize your energies, structure your preparations and personalize your training to ensure a winning combination. The name is PT. The best choice for you to crack various entrance tests.

PT offers courses for -

MBAENTRANCE-

'Pinnacle': A comprehensive written + GD-PI package to help you sail through the CAT and all other tests.

MCAENTRANCE-

Login': Helps you crack all national and state level MCA entrance tests like JNU, DU, MP, UP, Pune etc.

MMS-MCA, BBA, BCA ENTRANCE-

Takeoff: For a smooth entry into some of the best Post XII standard professional degree programmes.

GRE-GMAT, SAT-TOEFL-

'Galeway': Your best bet to max scores and pursue studies abroad. Includes Written test guidance.
Admission counselling and Visa guidance.

PERSONALITY DEVELOPMENT-

Personal: PDPs with extensive courseware and interesting classroom sessions to help make you smarter and more presentable.



For details, contact -

PT HQ: 41, DF, Scheme Number 74 C. Vijay Nagar, Indore -10 (M. P.) Tel..0731-202655, 202866 Email: pthg@ptindia.com

Success Simplified!

www.ptindia.com

Figuratectofot - aggal ammedabad - aufangabad - bangalofe - bafoda - bhilli - bhopal - (handigarh - bast delhi - bleth gelm - nota - north (ammis, gelm - south delhi - indofe - jabalfur - jaipur - jodhpur - kochi - nagpur - bagil e - beemuch - fatna - bafbur - banchi - bijiam - y y nagar - yafanasi

Globalisation

of world's economies in conditions of freer flows of trade and capital and movement of persons across borders, facilitated by new technologies for instant communication of information. More than 1.5 trillion dollars is exchanged in the world's currency markets functioning 24 hours a day. Nearly 40 per cent of global output of goods and services is traded. The world has seen periods of economic

integration in the latter half of 19th century and early part of the 20th century. Massive migrations had taken place from Europe and Asia to North and South America. Trade expanded in the 19th century and new technologies of steam power and telegraphs and telephones brought goods and people closer together. The World Bank records this process was interrupted by wars, economic depression, protectionism and restrictions on the movement of people in the 20th century till almost the 1970s.

Internationalisation of production has been taking place over the last few decades through the Multinational Corporations (MNCs), which operate with tens of thousands of affiliates. Their sales in 1998 were of the order of two trillion dollars, almost one-third of the world trade in merchandise.

As tariff and other barriers are getting lowered, trade is expanding, transport and communication costs fall, and technologically advanced enterprises move to different locations, globalisation is turning the whole world into a common village. The era of globalisation, which gained momentum in 1990s, has opened up new opportunities for countries, developed and developing, but also poses serious risks to countries which are unable to reform their own markets and become internationally competitive.

Notwithstanding the risks and challenges flowing from globalisation, no single country, nor even a group of countries even if they act together, would be able to arrest the march of liberalisation and globalisation.

Global trade rose to 6.2 trillion dollars in 2000 as against 3.4 trillion in 1990. World trade has been growing faster than world out-

put. Developing countries including India shared one of the fastest growth in world trade in 2000 of 12.5 per cent. The oil price surge to 28 dollars a barrel contributed to the rise in the value of world trade but inflation in both developed and developing countries remained fairly subdued during the year.

The end of the 'cold war' in 1990 set the stage for most developing countries to liberalise their economies and undertake structural reforms aimed at higher growth of their economies and create a climate for attracting foreign investments to supplement domestic resources.

Resource flows of all types to developing countries increased from mid-1990s, even as official development assistance was declining. Private capital flows of all forms to developing countries were 299 billion dollars in 2000. Of this, Foreign Direct Investment (FDI) flows to developing countries totalled 178 billion dollars. They have averaged 170 billion dollars since 1996. China and Brazil are the first. and second largest recipients of FDI, China has been receiving 40 billion dollars as against India's two to three billion dollars through the past decade. Worldwide more than one trillion dollars of FDI flows were recorded in 2000. Of this, 800 billion dollars of FDI flowed to developed economies which are also the source for outflows of capital.

The might of MNCs has triggered legitimate concerns in developing countries as to how far they would be able to further their own development objectives and priorities while keeping their economies open and compete in the international market on fair terms. Conversely, there are also some concerns in developed countries as to whether increased exports from low-wage countries, as trade liberalisation keeps progressing, would affect employment of the less-skilled in their workforce. Some of these concerns have already found violent expression in antiglobalisation riots in USA and Europe, over the last two years though the lead is taken by environmental groups in richer countries.

Advances in electronics and telecommunications have integrated the world's capital and

LEUCODERMA-WHITE PATCHES



We have developed after years long research and experimentation a new, immensely effective treatment for Leucoderma (white patches on skin). The new remedy in a short time makes the skin turn normal completely wiping off the patches, this without any side effects. Large number of sufferers have already benefitted by this remedy, while more are under treatment. It has revived the hopes of the hopeless. After being cured they are all in praise of this panacea. The application of this medicine first turns the colour

white patch into yellowish dim, red or whitish. Then their size starts to shrink the ey completely disappear, thus normalising the colour of those who have given up the hopelessness or those under treatment should try this new remedy and see its maxingly quick results. Those seeking it should write detailed case history, their as, where on the body are the white patches and when these appeared.

INFALLIBLE CURE OF SEXUAL DISORDERS

This matchless multi quality remedy developed after years long research and experimentation with time tested herbs and compounds of gold, silver and other minerals as its ingredients has proved most effective and quick result yielding cure for all kinds of sexual disorders like diseases caused by mistakes of chidhood or falling in bad company, over indulgence, weakness of chidhood or hard toil in polluted atmosphere, also failings like well dreams, leak of semen with urine, other urinary ailments,



deficiency of procreative cells in semen, syphilis, gonorrhoea etc. It specially increases and stamina and strengthens manliness and vigour. Increases blood and makes the body strong. Consequently the cured one is able to completely satisfy his partie. You are invited to our vitality increasing remedies and regain your youth and served provess to the maximum and thus make your married life most enjoyable from their lost hopes. The patient should write full history of their allments

GET RID OF GAS IN STOMACH

is refect and widely tested medicine can fully cure you of all abdominal statistics as indigestion, constipation, sour eructation, sickness comiting. The dysertery, loss of appetite, guttural blow, burning in chest loud heart leafing feeling, loss of sleep, heaviness in head, loss of interest in the lateral of chronic patients have benefitted from our treatment for eatherts should try our cure without delay.

FEMALE DISORDERS

First outfering from menstrual irrogularities like abute pain during februal or expessive or insufficient flow of blood, irregularity in timings, red Mode of the over or under sexuality, frigidity, infertility etc should write to studies of the over or under sexuality, frigidity, infertility etc should write to studies of the over or under sexuality, frigidity, infertility etc should write to studies of the over or under sexuality
SHYAM A TURVED BHAVAN (EA-99)

2.5. Katri Sarai (GAYA) 805 105

54 | cover story

Financial markets to a large extent. Even as investors look for higher returns and portfoio diversification, developing countries must be able to ensure through exchange rate and other policies and mechanisms that the capial flows are managed such that the country penefits and risks of outflows are contained

al flows are managed such that the country benefits and risks of outflows are contained without serious destabilising consequences. There are as yet no international mechanisms o regulate capital flows and countries face isks of capital outflow if there are slippages in domestic economic management or grave weaknesses in the financial system. In trade, the Uruguay Round Agreements

owhich 100 developing countries including ndia became signatories, have limited the options available to countries in promoting heir interests. The obligations undertaken include not only drastic reduction of import ariffs but also removal of non-tariff barriers, specially quantitative restrictions (QRs) on imports of consumer goods. India has fully complied with the requirement. There are other stringent obligations regarding patent protection and trade-related investments. In all these areas, countries are bound by the agreed rules and disciplines, the observance of which is monitored by the World Trade Organisation (WTO).

Though market forces are taking over command of economies, and the role of public sector is diminishing in most countries, the state can play an effective interventionist role in promoting efficient production, improving access to markets, facilitating technological upgradation, and providing the necessary conditions for the healthy functioning of markets which should be well-regulated. These are all yet in the realm of discourse with few countries putting in place the safety nets.

There are no doubt visions of major developing experients.

oping countries like China and India becoming superpowers in the 21" century. The World Bank has classified India along with China and three other developing countries as the "Big Five", whose role in world economy is likely to increase dramatically over the next two decades. It says these countries' share of world GDP could nearly double by 2020. Even with an average GDP growth of 5.8 per cent, India's share of world real GDP would move up to 2.1 per cent from the one per cent in 1992. Similarly, India's share of world exports is expected to improve from 0.8

per cent in 2000 to 3.9 per cent by 2020. China would be far ahead by then with 3.9 per cent of world GDP and 9.8 per cent share of world exports.

Meanwhile, there are immense challenges

for developing countries to overcome as they go along on the road to globalisation. India's place will be determined by its ability to tackle poverty and unemployment effectively and raise the levels of education and health for the over one billion population. But economies can no longer remain insular and will be totally marginalised and isolated, unless they become internationally competitive and remain efficient in resource use and productivity. These objectives call for many structural reforms and meeting the challenges on the way.

While India may have rejected export-led growth strategy in the past as unsuited to a large country, the world has come a long way with trade growing faster than output and massive amounts of capital freely flowing across borders. The technological discoveries in the second half of the 20th century have knit the world so much that even the concept of nation-state itself is becoming irrelevant. Countries have shown willingness to surrender part of their sovereignty to abide by international rules and also promote powerful regional trade and economic groupings with a determination to stake their share in global prosperity. Can India lag behind?

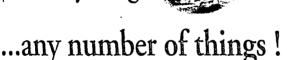
Impact of Globalisation

According to a UN study in 1999, the era of globalisation is opening many opportunition for millions of people around the world. It creased trade, new technologies, foreign it vestments, expanding media and Interactions are fuelling economic growt and human advance. All this offers enormoupotential to eradicate poverty in the 21st certury.

Today's globalisation is being driven b market expansion (opening national border to trade, capital, information) which i outpacing governance of these markets an their repercussions for people. More progres has been made in norms, standards, policie and institutions for open global markets that for people and their rights. "Competitiv markets may be the best guarantee of efficiency of the progression of the people and their rights."



A loan for just about anything



Relieve it or not, Union Bank's "UNION COMFORT PERSONAL LOANS" is truly a loan hunter's dream come true. Not only can you do as you please with the money, you don't even have to declare your reasons for the loan! All you need to show, is your salary slip, and in just a few days' time the loan is in your account. To be spent in anyway you like!

Features:

- Anyone above 18 years of age.
 - Loan amount is upto Rs. 1 lac.
 Can be higher for working couples.
- Rate of interest 15% p.a. 1% discount for Group borrowers.
- Repayment in 36 months of EMIs.

For more details, please contact your nearest Union Bank branch.

यूनियन वैंक ऑफ इंडिया : अच्छे लोग अच्छा बैंक



UNION BANK OF INDIA

Good people to bank with

Website: http://www.unionbankofindia.com

ciency, but not necessarily of equity. Markets are neither the first nor the last word in human development. Many activities and goods that are critical to human development are provided outside the market—but these are being squeezed by the pressures of global competition." When the market gets out of hand, the instabilities show up on boom and bust economies, as in the 1997 financial crisis in East Asia and its worldwide repercussion, cutting global output by an estimated \$2 trillion in 1998-2000.

The challenge of globalisation in the new century is not to stop the expansion of global markets but one of setting rules and institutions for stronger governance—local, national, regional and global—to preserve the advantages of global markets and competition, but also to provide enough space for human, community and environmental resources to ensure that globalisation works for people—not just for profits.

This is easily said than done. At present, for many developing countries including India, the risks outweigh advantages and opportunities under globalisation. For instance, in India the 1990s has seen more retrenchment as firms downsize or merge to stand the rigours of competition. This is happening in a lilieu when GDP growth is not generating jobs. Trade liberalisation has unavoidably resulted in flood of cheaper imports into the country which hurt local manufacturers.

Globalisation has also impacted on income levels with the rich getting richer, given their ability to adjust easily to a new environment, and the poor becoming poorer. Even developed countries are no exception to income inequalities in the wake of spread of globalisation processes. There is thus a growing tide of opinion at the people's level which is one of resistance to externally-imposed disciplines. There are equally concerns, whether in the WTO negotiations on agriculture, services and patent protection, developing countries would get a fair deal to safeguard their development and a level playing field in trade exchanges or movement of service personnel. More basic concerns relate to the ways in which the rapid spread of communication and images might affect people's lives and traditional cultures and drive countries to conformity to a single pattern.

Overall, the international community not moved decisively till mid-2001 to evol new economic order, which is more equit to all, nor it had gone far in creating a financial architecture which will ensure bility in the movement of key currencies orderliness in the worlds' financial marke

Structure of World Economy

In 2000, all advanced economies has share of 57.1 per cent of world output 75.7 per cent of global exports of goods services. Of them, USA and six other mindustrial countries account for 45.4 per of global output and 47.7 per cent of traces.

Developing countries' share of output trade was 37 per cent and 20 per cent respectively. Region wise, Asia has the largest shamong developing countries with 21.6 per of output and 9.2 per cent of trade. The shof China and India are 11.6 and 4.6 per of in output and 3.7 and 0.8 per cent in exprespectively. The share of countries in tration like Russia and Central Asia is 5.9 per of in output and 4.3 per cent in trade.

The Value of World Output

The value of world output at market excharates has been rising and is estimated by IM 31.4 trillion (31,400 billion) dollars in 200 against 24.4 trillion dollars in 1994. From annual average of 18 trillion dollars in period 1983-92, world output value rose to average of 29.6 trillion dollars in 1993-20 Global output grew at the rate of 3.4 per cen 1983-92 and 3.6 per cent in 1993-2000. Wo trade outpaced GDP growth at the rate of per cent in 1980s and 7.5 per cent in 1990

Dimensions

The dimensions of globalisation can be seen the rapid growth in world GDP, trade a capital flows, the widening reach of multitional firms, and the wave of mergers a acquisitions among entities engaged in I duction, transportation, marketing or finicial services.

Total trade rose to 6.2 trillion in 2000 wiforeign direct investment flows exceeded trillion dollars— a 14 per cent increase o 1999, bulk of which went to developed tions (899 billion dollars) while develop countries received 190 billion dollars a Central and Eastern Europe 30 billion dollars

cut, all designed to lift the economy out of prolonged slowdown. Since USA has been

y prolonged slowdown. Since USA has been a largest market for developing countries, the bowth rate for the latter has been scaled down five per cent though for developing Asia, it is bejected at 5.9 per cent (China 7 per cent and lia 5.6 per cent). In view of the slowing of the rld economy, WTO has forecast a volume bowth decline in trade to 7 per cent in 2001 m the 12.5 per cent in 2000. International bital flows were also expected to remain ordured in 2001.

Oil prices continued to remain high (28-29 flars a barrel) in the first half of 2001 withte the expected stabilisation at 25-28 dols. Developing countries, substantially dendent on oil imports, are going through a riod of difficult adjustment to higher oil ices since the beginning of 2000.

ilobal Institutional ramework

. International Financial Institutions sternational Monetary Fund (IMF)

The IMF, with a membership of 183 counies, was established by the Bretton Woods 'ew Hampshire) Conference in July 1944 to note exchange rate stability, balanced it in international trade, the establishment of a multilateral system of payments, and to provide temporary financial assistance of Fund members with balance of payments problems—with the intention of lessening the hreat to the international system.

In the mid-1980s, the Fund began providng concessional assistance to the poorest countries, with the launching of the Structural Adjustment Facility (ESAF). In 1999, the ESAF was expanded and renamed the Poverty Reduction and Growth Facility (PRGF). IMF at present operates a debt relief programme for the Heavily Indebted Poor Countries (HIPC), mainly in Sub-Saharan Africa.

IMF has a capital base of 300 billion dollars contributed by member countries, each having a quota. The United States has by far the largest quota equal to 17.63 per cent. This gives the United States voting rights in the IMF Executive Board that enable it to veto certain major policy issues such as quota increases and amendments to the IMF's Articles

of Agreement. The next largest quotas are held by Japan with 6.32 per cent, Germany 6.17 per cent, and France and the United Kingdom each with 5.1 per cent.

World Bank Group

The World Bank (182 members) was also founded in 1944 at the Bretton Woods conference, named as the International Bank for Reconstruction and Development (IBRD). Its sister organisations are the International Development Association (IDA), International Financial Corporation (IFC), the Multilateral Investment Guarantee Agency (MIGA) and the International Centre for Settlement of Investment Disputes (ICSID).

The World Bank Group (including IDA and IFC) approves loans, soft credits totalling about 20-21 billion dollars every year (July-June). The World Bank Group's capital base is made up of contributions by member-countries. USA has the largest share—about 17 per cent—which gives the United States the power to veto any changes in the Bank's capital structure and operational strategies.

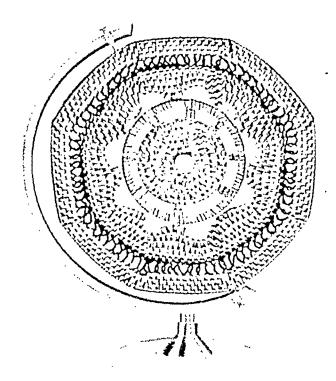
International Development Association (IDA)

IDA is the World Bank Group's concessional lending window. It provides long-term loans at zero interest to the poorest developing countries, i.e. countries with a per capita income in 1999 of less than \$885. At present, 78 countries are eligible to borrow from IDA. Together these countries are home to 2,300 million people, comprising 53 per cent of the total population of the developing countries. Today, 1,500 million of these people survive on incomes of \$2 or less a day. India and Indonesia are eligible for IDA assistance due to their low per capita incomes, but they are also creditworthy enough for IBRD borrowing. IDA credits to poor countries totalled over 120 billion dollars till June 2000.

International Finance Corporation (IFC)

The IFC, established in 1956, assists private sector activity in developing countries by financing projects with long-term capital in the form of equity and loans. It helps companies in the developing world to raise funds in international financial markets and provides advice and technical assistance to businesses and governments. IFC charges market rates for its products and does not accept govern-

LOCAL SKILLS, LOCAL MATERIALS, GLOBAL MARKET

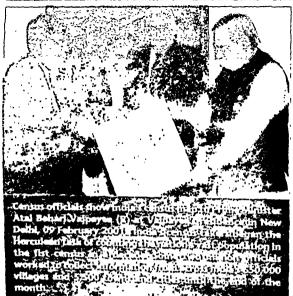


KVIC has unique expertise in using local skills and locally available material to make quality goods. Not only it helps people in making them but also to explore the markets across the world.

KHADI AND VILLAGE INDUSTRIES COMMISSION

Gramodaya, 3 Irla Road, Vile Parle (W), Mumbai-400 056 Tel: 022-6716323 / 6714320. Fax: 91-22-6711003 L-mail. mktkvic(a bom5.vsnl net in .kvichq/a bom3.vsnl net in Website: www.kvic.org in





still higher than the assumptions ranging from 1.6 to 1.8 per cent made by the Planing Commission and other organisations.

nina's population growth over the last decade was one per cent. Foodgrain production in the decade at 1.9 per cent roughly matched the population growth.

The over 1027 million population comprised 531,277,078 males and 495,738,169 females. The sex ratio of 933 females per 1000 males was an improvement over the 1991 figure of 927.

Both in annual growth rate and sex ratio, there are wide variations among the States during the decade 1991-2001.

Bihar has recorded the highest increase in the percentage decadal growth from 23.38 during 1981-91 to 28.43 during 1991-2001. The lowest growth rate was recorded in Kerala (9.42 per cent), followed by Tamil Nadu (11.19) and Andhra Pradesh (13.86). Andhra Pradesh has shown the sharpest decline among the major states i.e. from 24.20 to 13.86 per cent.

Almost half of India's population lives in five States, Uttar Pradesh, Maharashtra, Bihar, West Bengal and Andhra Pradesh. Uttar Pradesh continues to be the most populous state with 16.17 per cent of India's popula-

tion followed by Maharashtra (9.42 per cent) and Bihar (8.07 per cent). The population of Uttar Pradesh (166 million) alone exceeds the estimated population of Pakistan. Interestingly, almost two-thirds of India's population live in States and Union Territories which show decline in growth rate during the decade 1991-2001.

States, which have not recorded any fall in population growth, are Bihar, Rajasthan and Uttar Pradesh. The net addition to population in the decade 1991-2001 showed a significant drop in Andhra Pradesh, West Bengal, Kerala and Tamil Nadu.

India now has 57 more persons per sq.km as compared to 1991. West Bengal is the most densely populated

state in the country with 904 persons living per sq.km, followed by Bihar with 880.

The following Table gives the growth of population during the twentieth century, average growth and the density of population

Literacy

A heartening feature is the impressive rise in the rate of literacy from 52.21 per cent in 1991 to 65.38 per cent in 2001 (75 per cent for males and 54 per cent for females). This means that three-fourths of the male population and more than half of the female population is literate. This brings down the gap in male-female literacy rates from 28.84 in 1991 to 21.70 in 2001.

Kerala has maintained its unique lead in population control and literacy level. Its annual growth rate dropped to 0.90 in the decade, well below the national rate of 1.93 per cent. Tamil Nadu followed with a growth rate of 1.06 per cent and Andhra Pradesh 1.30 per cent. Literacy rate in Kerala is 90.92 per cent. Bihar recorded the lowest literacy rate of 47.53 per cent.

At the national level, over 203 million people, including 95.6 million females, turned literate in the decade of 1991-2001 and the total number of illiterates came down in 2001 to a little over 296 million (190 million fe-

EECAMBADGE COMMENTARY

ustering and Sceaming ?

Books for Battar Inglish.

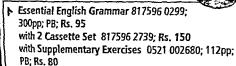
Murphy's English Grammar

(Third Edition)
Raymond Murphy
A self-study reference and practice

book for intermediate students of English. This is the world's bestselling English grammar.

0521 616638; x + 382pp; PB + CD-ROM; Rs. 360

0521 61662X; x + 382pp; PB + Free pull-out grammar reference pocket guide; Rs. 295



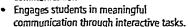
- Intermediate English Grammar 818561 8518; 352pp; PB; Rs. 100
 with Supplementary Exercises 8185 618712; 126pp; PB; Rs. 65
- Advanced English Grammar 8175 960671; 350pp; PB: Rs. 125

Listening and Speaking

A Course in Listening and Speaking

V. Sasikumar, P. Kiranmai Dutt and Geetha Rajeevan

- Develops accuracy, appropriacy and fluency in communication
- Prepares students for face-to-face and telephone communication



- Offers excellent models of use of English through a variety of listening exercises on the CD-ROM
- Provides tips to eliminate influence of the mother tongue

ACLS I (PB + CD-Rom) 817596 3344; Rs. 150
ACLS II (PB + CD-Rom) 817596 3417; Rs. 85

cabulary

► English Vocabulary in Use

Michael McCarthy, Felicity O'Dell and Stuart Redman

Four Levels

- Easy-to-use units
- Presents and explains new words in context and rules for use
- Based on a corpus of real written and spoken language
- Suggests tips and techniques for good vocabulary learning habits
- Comprehensive, student-friendly key
- Includes a detailed index with phonetic transcription
- Elementary: 0521 003164; 168pp, PB; Rs. 120
- Pre-Intermediate and Intermediate 0521 779634; 277pp, PB; Rs. 140
- Dpper-Intermediate 0521 016339; 304pp, PB; Rs. 150
- Advanced 0521 540844; 318pp, PB; Rs. 195

W Use: Pronunciation

► English Pronunciation in Use

and intonation.

Mark Hancock
English Pronunciation in
Use is for learners of
intermediate level and
above, covering all aspects
of pronunciation including
individual sounds, word
stress, connected speech

0521 547709; PB; 200pp; Rs. 195 0521 547725: Book and

4 audio cassettes pack; Rs. 495 0521 547717; Book and

4 audio CDs pack; Rs. 495





- English Idioms in Use 0521 540879; 190pp; PB; Rs. 150
- English Phrasal Verbs in Use 0521 605660; 206pp; PB; Rs. 225

In a span of 11 minutes, seven bombs ripped through the packed first class compartments of commuter trains in Mumbai, during the evening rush hour on July 11, killing more than 180 persons and injuring 700.

It paralysed the city and rendered hundreds of people on railway stations and roads, as the Western Railway service was shut down for five hours. But in less than 24 hours the trains that form the transport lifeline of one of the world's most congested cities were again bustling. And once again the people of Mumbai bounced back and millions of commuters started traveling in over-crowded trains as usual. "This is living proof of our contempt for terrorism. No one can make India kneel. No one can come in the path of our progress." - Prime Minister Manmohan Singh said in an addressed to the nation.

Mumbai was no stranger to terrorist attacks, having witnessed its worst in 1993, when bombs placed outside hotels, banks, the Air India building, and the Bombay Stock Exchange exploded leaving more than 250 dead and around 1400 injured.

The banned Students Islamic Movement of India (SIMI) was one of the prime suspects in the Mumbai train blasts. Originally set up as a students organisation in the early 1980s, SIMI got embroiled in allegations of involvement in riots across Maharashtra and was banned in 2001. Subsequently it is believed to have joined outfits like Pakistan-based Lashkar-e-Toiba. Analysts compared the attack with the mass transit bombings in Madrid in 2004 and London in 2005.

Two bomb blasts in Varanasi on March 7 killed 38 people and injured more than a hundred. The first was in the Sankatmochan temple in which several people including the priest and participants of an ongoing wedding were killed. The second was at the Varanasi railway station. Further casualties were prevented because bombs discovered at other spots were defused in time. For these

incidents also the Lashkar-e-Toiba was blamed. Within hours two top LeT operatives were killed in a police raid in Lucknow.

At least 31 people were killed and more than 200 seriously injured when three powerful explosions rocked the communally sensitive town of Malgaon in September. The blasts took place almost simultaneously in the graveyard of the Noorani Mosque and the busy Mushaira Chowk and Ayeshanagar locality. Thousands of people had assembled at the graveyard for prayers on the holy day of Shab-e-Barat. The people who had gathered in the mosque for Friday prayers were also among the casualties. The blasts were termed as terror attack aimed at creating communal tensions between Hindus and Muslims



The going got tough for the former external affairs minister Natwar Singh following the publication of the findings of Justice Pathak Committee which inquired into the Volcker Commission Report relating to the United Nations Oil-for-Food Progra-





New Editions 2005

Cambridge Dictionaries

Fully Updated

CAMBRIDGE ADVANCED LEARNER'S DICTIONARY

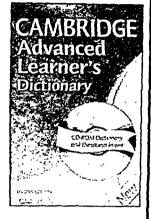
Second Edition

The ideal dictionary for upper intermediate to advanced level students and for FCE, CAE, CPE, IELTS and TOEFL preparation.

- · 'Mini-collection boxes' show which words go together.
- Frequency information showing you the most important words to learn.
- Hundreds of new words and phrases.
- Usage notes based on the Cambridge Learner Corpus help you avoid common mistakes.
- · Easy definitions, and Guidewords help you find the meaning you want - Fast!

The CD-ROM gives you even more!

- Hundreds of interactive exercises including exam practice for IELTS, FCE, CEA, CPE and BEC.
- Thousands of extra example sentences.
- SMART thesaurus turns the dictionary into a thesaurus - instantly!
- Spoken British and American pronunciations for every



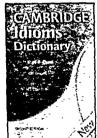
PR Rs. 425 PB + CD-ROM Rs. 495 HB + CD-ROM Rs. 595

CAMBRIDGE IDIOMS DICTIONARY

Second Edition

- Fully updated with new idioms, e.g. think outside the box, nailing jelly to the wall
- Lively new pictures illustrating many idioms
- Photocopiable worksheet
 - Topic pages covering useful language areas

PB



TBA

CAMBRIDGE ESSENTIAL **ENGLISH DICTIONARY**

The new dictionary for beginner to preintermediate learners of Enalish

- Easy explanations of words, using simple language
- Thousands of short, clear examples show you how to use words
- Hundreds of pictures to make learning words easy
- 5 pages of the most important phrasal verbs for you to learn



Rs. 109

CAMBRIDGE UNIVERSITY PRESS (INDIA) AVI. LLID.

CUSTOC HOISE, 4381/4, Ansari Road, Daryagani, New Delhi Tel: 232/7332, 232/85851 / 52 E-mail: capdel@capind.com C1) 'C Bod Ergsde MM, K. R. Road, Jayanagar, Bangalore Tel: 25764817, 25762764 E-mail: capbang@capind.com THE CAMERIDGE CENTRE, 21/1 (New No.49) 1st Floor, Model School Road, Thousand Lights, Chernal

Tel: 28291294, 42146807 E-mail: cupchen@cupind.com THE CAMBRIDGE CENTRE, 10 Raja Subodh Mullick Square, 2nd Floor, Kolkata

Tel: 22259976 E-mail: cupkol@cupind.com CAVERINGE MODER PLANT OF Consider Industries Shirvarie, Sector-1, Neral Mari M

mme. The Committee found that Natwar. as head of the Congress foreign affairs cell had misused his position to get oil contracts from the UN-sanctioned Saddam Hussein regime for his son's friend Andaleeb Sehgal's Hamdaan Exports. However the report made it clear that neither Natwar nor his son Jagat had received money from anyone. The report also said that "there is not a shred of evidence to link the Congress Party to the said transactions".

The leakage of the report before it was presented to the prime minister was condemned by the opposition parties as well as Natwar Singh. He filed a breach of privilege notice against the prime minister and even criticised him in public. He was promptly suspended from the Congress.

The Volcker report released in October 2005 had said that Natwar and the Congress Party had paid illegal surcharges to the Saddam Hussein regime in Iraq to secure four million barrels of oil which they had later sold in the international market through a Swiss company for a profit. Subsequently, Natwar lost his job as the external affairs minister, but was retained as minister without portfolio. Later he was removed from the Congress Working Committee and had to resign from the Union Cabinet.

The Mahalan Trage

One of India's most articulate and resourceful politicians was cut down at the peak of his career. After a valiant 12-day battle for life in a Mumbai hospital, the BJP general secretary and former union minister Pramod Mahajan, 57, succumbed to the injuries he suffered from the gun shots by his own younger brother Praveen Mahajan.

Praveen shot him at point blank range in



Pramod Mahajan

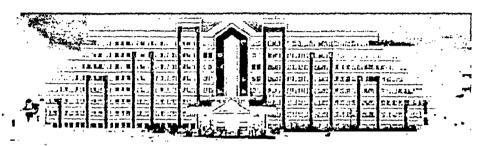
his Mumbai apartment in April 2006, and later explained that he took revenge for year. of humiliation by his brother. He surrendered to the police and was taken into custody.

Pramod Mahajan, who was born in a sma town Maharashtrian middle-class family has come to public life through the ABVP an RSS. He attracted national notice in the 1980 when he masterminded the BIP's first and ti most successful alliance with the Shiv Sen He served first as the minister for inform tion and broadcasting and later as the mi. ister of information technology in the NI government headed by the BJP leader A Vaipayee at the cente.

After the NDA lost power, he became c of the six general secretaries of the BJP. Clo to big industrialists and businessmen her considered to be the biggest fund raise the party. He was anointed by Vajpayer BJP's Lakshman, meaning heir apparent.

The tragedy struck the Mahajan far again in June when Pramod's son Rahul carried unconscious to a hospital from Delhi official residence of his fat! Pramod's personal secretary Bibek Me was found dead due to over doze of coci

AN INDIAN UNIVERSITY WITH GLOBAL TECHNOLOGY





Today, Velore Institute of Technology (VTT) offers quality education in basic technical fields as we'll as in some of the world's most technologically advanced subjects.

In fact, VTT is the first Indian University to get International Accreditation, Our 7 Bachelor's programmes and 16 Master's programmes have been accorded accreditation up to 2009 by the renowned institute of Bectrical Engineers (IEE), London, UK.



The B.Tech and M.Tech programmes are now equivalent to B. Eng (Hors) and M.Sc courses offered at Universities in the UK.

Key Highlights



- Deemed University status conferred in 2001.
- First educational institution in India to oct ISO 9002 certificate in 1999.
- More than 10,000 students.
- 98% of 2006-07 batch have already been placed in Multinational and National companies through compus interviews.
- Academic partnerships with 29
 Universities in Europe, USA, Canada & Australia.
- Department of Science and Technology (DST, Government of India) sponsored research contines:
- Centre for Bio-Medical and Bio-Separation Technology.

- Technology Business Incubator (TBI)
- Research Centre on Automotive Bedronics.
- Centre for Renewable Energy Studies.
- Automotive Research Centre
- Sponsored Research Programmes from DST, DRDO, ISRO, CSIR, UGC, DRDL, ADA, AICTE etc.
- Asia link programme for Bachelor's Degree in Mechanical and Energy Engineering funded by the European Union.
- Master's Programme in Automotive Engineering longy with ARAI, Pune.
- On a single day, 525 Students of 2005-06 batch have been placed in TCS.









VIT

Vellore Institute of Technology
DEEMED UNIVERSITY
Vellore - 632 014, Tamil Nada, India.



They had come to Delhi on their way to Guwahati on the next day to immerse Pramod's ashes in the River Brahmaputra. Rahul was arrested on charges of procuring, consuming and distributing drugs and destruction of evidence.



In a rare incident, an Independent MLA became chief minister of a state. Madhu Koda, 35, formed a coalition government in Jharkhand in September 2006, with the support of the United Progressive Alliance consisting of mainstream political parties such as the Congress and the Rashtriya Janata Dal.



Reflecting the political flux in Jharkhand, he is the state's fifth chief minister in less than six years of its existence.

Koda's rise to power followed the collapse of the 18-month old Arjun Munda-led National Democratic Alliance government after it was reduced to a minority in the wake of resignations of four ministers.

Koda had contested the February 2005 eletions as a rebel BJP candidate. But within

a month he returned to the NDA fold, offering his support to the Munda government in return for a ministerial berth.

Alnew Era in Sino-Indian Ties

It was a dawn of a new era in Sino-Indian relations when the famous Himalayan pass on the border between the two countries was reopened in July 2006, after a gap of 44 years. It demonstrated the determination of both nations to push forward economic and political cooperation despite the border dispute between them remaining unsettled.

The 4,500 meter high Nathula pass which runs between India's Sikkim state and China's Tibet Autonomous Region was once part of the historic Silk Route that connected China with India, West Asia and Europe. It used to account for 80 per cent of Sino-Indin border trade before it was closed after a brief border war in 1962.

The reopening of the pass came a little over a year after China accepted Sikkim as part of India and India recognised Tibet as part of China. China is India's second largest trading partner only after the US. Trade through Nathula pass though on a small scale in the beginning is expected to boost the economies of the land-locked mountain regions of both countries.

विवार अपन्यवाद्यां विश्वास्त्र

The Assembly elections in April-May 2006 placed the Communist Party of India (Marxist)-led Left alliances in their strongest ever positions in West Bengal and Kerala. In West Bengal, the Left Front which had in power for 29 years since 1977, was elected for the seventh consecutive time, with a whooping three-fourths majority.

While the Left Front won 235 of the 294

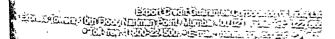
WISHFUL THINKING? WISH GRANTED.

We're one of the largest credit risk insurers on the planet. There isn't actually anything more that we'd like to state.

- Turnover Policies
- Exposure Policies
- · Standard and Small Exporter Policies
- Consignment Policies
- Service Sector and IT Enabled Services Policies
- Specific Policies









YOUNUS COLLEGE OF ENGINEERING AND TECHNOLOGY

Approved by A.I.C.I.B. New Delhi & Affiliated to University of Kerala.

Manakkad, Vadakkevila. P.O., Kollam - 691 010. Kerala. India Ph: 0474 - 2724305, 2726072, 2729131. Fax: 0474 - 2726055. Web: www. ycet.ac.in, Email: info@ycet.ac.in

FATHIMA MEMORIAL EDUCATIONAL TRUST

The Trust was established in the year 1991 in accordance with Chamble Societies Act. The Head Quarters of the Trust is at Patrick State A. Younus Kuniu Ex-MLA is the Founder Chairman of the Trust The Trust runs several Educational Institutions including Youngs College of Educational & Technology. The following B. Tech courses are offered

- CIVIL ENGINEERING 1.
- 7 COMPUTER SCIENCE AND ENGG.
- 3. ELECTRONICS AND COMMUNI-CATION ENGINEERING (II batch)
- 4. DEPENDENT TEXESUOST
- 5. ELETROIL & ELETTOPIC ERGS
- 6. **RECURRIE EIGHERCHS**



COMPUTERICED MCDERN HERAPY

PRICICAL FOUCE DEPLETHENT

ROSTEL ELOUTE FOR BOYS & FIRE

SISTER INSTITUTIONS:

Fathima Memorial B.Ed. College, Umagazinar Apapare, Vollato, Ph.: 0474-7518 Fathima Memorial TTI, Pallimukku, Vatakrania 25, Vallani, Ki : 0574 - 17125 Fathima Memorial B.Ed. College, Fallimotor, Violent, 16, Vinc. 1874-2711362 A.K.M. Higher Secondary School, Umagenetices, Wylapose, Vollan, Ph.: 052-

An Institution Monaged by

FATHIMA MEMORIAL EDUCATIONA Anomy Professional Sources With South Mathers

A. YOUNUS KLINIEL EV. AAL &



Sachidananda Murthy

Resident Editor, The Week & Malayala Manorama, New Delhi.

he year 2006 was one of sharp contrasts. While the UPA government remained stable, political class was rocked by controversies. Even as the economy grew rapidly, suicide of farmers and growing rich-poor gap rang the alarm bells, serial blasts on Mumbai trains and attack on temple in varanasi kept the nation on its toes, and relations with Pakistan became tense. An aggressive Prime Minister showed a new face, but was hobbled by the fetters put by allies and supporters on disinvestment and civilian nuclear deal with the United States, even as George Bush had a high profile visit. Reservations in higher education became a tough chestnut for the government to handle. The main opposition party was hit by the murder of its chief fund raiser, poor electoral performance, an ineffective rath yatra and a mole charge which backfired

Parliament was in focus as controversies and scandals rocked the edifice to its foundations. Even as Parliament was recovering from the controversy of the MP s who were trapped in the cash for questions scandal, the latest crisis took everyone by surprise. The political system got jolted with the disqualification of Jaya Bachchan, the Rajya Sabha member of Samajwadi Party and it triggered off an avalanche of petitions against members of parliament holding unexempted offices. the controversy sucked into its vortex major politicians like UPA chairperson Sonia Gandhi, Prime Minister Manmohan Singh, Lok Sabha Speaker Somnath Chaterjee and also triggered a constitutional standoff when presi-

dent A.P.J. Abdul Kalam became the first occupant of Rashtrapati Bhavan to return a bill to Parliament for reconsideration.

The Office of Profit issue

Stung by the allegations that she was occupying an office of profit as chariperson of the national advisory council, Sonia resigned from the lok sabha, saying her inner voice had advised her to give up the post. She won the byelection with a bigger majority which made her supporters call her a true martyr. Other MPs, including Chaterjee refused to resign, and instead the UPA and its outside supporters pushed for a change to a 47 year old law on offices which are exempted.

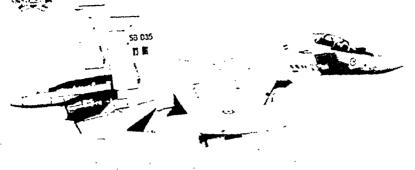
The country debated on the need to separate executive power from Parliamentarians. Over the years nobody cared for this provision and MPs took jobs which conflicted with their job as lawmakers. The situation was worse in states as chief ministers would appoint every MLA, who could not be made a minister to posts with the rank and privileges of cabinet minister.

The Election Commission concluded Samajwadi Party MP Jaya Bachchan had enjoyed the privileges and powers of chairman, Uttar Pradesh Film Advisory Council she was disqualified from Rajya Sabha. Political rivals rushed with complaints against their foes, targetting Sonia, Chaterjee and 50 other MPs. the government moved fast with a bill to amend the law on office of profit, exempting 43 posts, including NAC, the Srishantiketan Development Authority





INDIAN AIR FORCE



We Convert Raw Talent to World Class Leadership Material

- Dream to fly high (Engineers /Graduates). Earn your wings through a Professional & Systematic Training in 74 weeks.
- Be an elite engineering force and work on state of the art planes, missiles, radar, communication system.
- Through Operational Support Group manage men & material, finance, education, met and controlling operations.











Next IAF officer cadre recruitment advt appear in Employment News and Leading Dailies
during Apr - May 2007 and Oct - Nov 2007

For Career Details Contact:

Publicity Cell, Air HQs., Disha', Motital Nehru Marg, New Delhi-110011

Tele 011-23010231 Extn 7080 Tolofax 011-23017918 Website, www.careerainforce.nic in e-mail career_iaf@bol.net in

के Abahay Med'a Pet, Ltd., ND-49, Ph 011-24651697

LIC's Jeevan Tarang A unique 'Whole of life' plan



- Guaranteed annual survival benefit @ 5.5% of sum assured through out life after the premium paying term.
- Tax benefit available according to Sec 80C and Sec 10(10D).
- Age eligibility: 0-60 years.

Table No. 177



Life Insurance Corporation of India

Trust - Thy Name is US

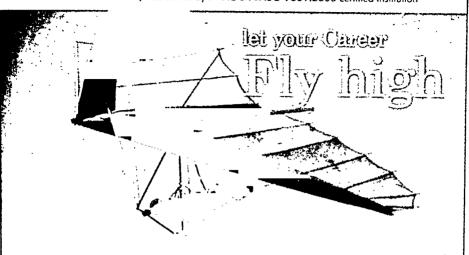
Contact your month Branch of UC agent for more information.

L'ANDER & DE RESELT LESSES LE SECULIES.



Garden Gifty College

A permanent affiliated institution of Bangalore University, Approved by AICTE - New Delhi, Government of India, Accredited by NAAC & An ISO 9001:2000 certified institution



Courses Offered

- B.Sc. Courses In Computer Science Microbiology Genetics Biotechnology • Fashion & Apparel Design • Nursing • BA Course in Journalism • BBM - Bachelor of
- Business Management BCA Bachelor of Computer Application B.Com. Bachelor of Commerce • BHM - Bachelor of Hotel Management • BPT - Bachelor of Physiotherapy

- MBA Master of Business Administration MCA Master of Computer Application
- MTA Master of Tourism Administration MSW Master of Social Work M.Sc. -
- Biotechnology M.Sc. Microbiology M.Sc. Biochemistry M.Sc. Applied Genetics M.Sc. - Apparel Technology & Mgmt. . M.S in Communication . M.Sc. - Electronic Media
- M.Sc. Electronic Science MPT Master of Physiotherapy



Science & Management Block

PG Block

BHM Bugh

Corporate Office: #628/C, 1st Stage, Indiranagar, Bangalore - 560 038 Tel: 91-80-25288831 / 25271385 / 22972754 / 3 Fax: 91-80-2529141.

democratic stability and economic prosperity. The Kingís iron handed approach achieved what was thought to be impossible till now - unity between the political parties and the Maoist forces. They found a common symbol of hatred in the King, who had held all political and military power. But as people poured into the streets, Gyanendra was forced to restore the Parliament which he had sacked and appoint veteran G P Koirala as the prime minister. The Parliament promptly stripped all powers of Gyanendra and jailed his ministers.

Violence rocked Sri Lanka as the ceasefire between the army and the Liberation Tigers of Tamil Eelam collapsed. While LTTE resorted to political assassinations in the capital Colombo, the army began a ruthless operation to drive Tigers out of their hard won territory. The peace process, brokered by Norway and supported by India, collapsed as Norwegian monitors withdrew from the ceasefire zones.

Hardliner President Mahendra Rajapakse also moved fast to consolidate power by ousting his predecessor Chandrika Kumaratunge from the key posts of the ruling party. India, ever sensitive to the plight of the Sri Lankan Tamils and its impact on the domestic situation, urged Rajapakse to work towards a federation which promised justice and equity to the Sinhalese and Tamils.

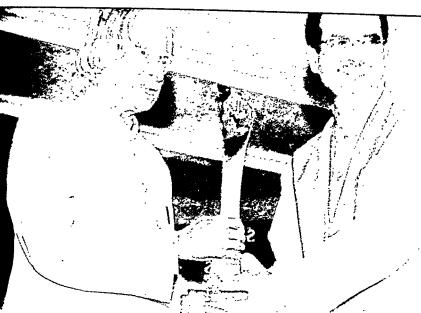
The share market continued its dizzy climb as it crested the 12,000 mark and money flowed into the market. Trade improved and foreign direct investment increased in the non traditional areas. Big investors were steel giants Lakshmi Mittal and Koreais POSCO. The government boldly talked about making the rupee float free within five years. Even as the economy boomed, trade relations developed slowly with the neighbourhood. But the booming economy also saw the shame of hundreds of farmers committing suicides in the Southern states and Maharashtra, as they

were unable to get out of the debt trap. Special packages were given by Singh, but the agrarian crisis needed much more effort. Despite the government announcing increase in rural sector and other ameliorative steps, there were concerns that it was not enough. After a long time, the country imported wheat, as the rise in prices of pulses and petroleum products put pressure on inflation.

The South Asian Free Trade Agreement amongst the SAARC countries did not take off, because of Pakistanís reluctance to give Most Favoured Nation to India. SAARC grew with the membership given to Afghanistan and observer status to China and United States. The Free Trade Agreements with Thailand and Singapore too suffered due to concems on various issues, though Manmohan Singh has made it a part of his trade policy. But economic ties with the Arab world, which had been tepid since the Babri Masjid demolition and the Iraq war, improved dramatically as Saudi King Abdullah made a historic visit to India and a host of leaders from the region came to New Delhi, sometimes first to Bangalore and Hyderabad to see the IT revolution.

However Iran was not enthusiastic about greater oil and gas links with the UPA government, as it was peeved about New Delhi voting against Tehran on Iran;s nuclear programme. But Manmohan Singh was clear that India did not want another nuclear weapon state in the neighbourhood and was sure that Iran would calm its anger against India.

Nuclear issues dominated Parliament because of the treaty planned with United States, which was cemented during the visit of George Bush, after a few last minute glitches. The deal got the approval of the US Congress, but the conditionalities suggested by American lawmkaers made the Indian nuclear scientists and the opposition parties see an attempt to shackle Indiais nuclear



Kudos to the people of State

Honouring the whole populance of 6.5 Crores.

India Today has conferred the title of "Fastest growing Big State" to Madhya Pradesh. The basis is the excellent work done during the period of 2003-2006, in companson to the entire decade of 1993-2003.

According to the magazine, for the first time the performance of the government was also taken into account with general growth of the State. This is how the winner and the doer was chosen.

Mathya Pradesh has scored in the field of infrastructure and agriculture. In the field of good governance and law and order, the State is second and third respectively in the country.

India Today believes if the state keeps up this pace, then it would be in the front rows of leaders.

It is amazing tohat you can accomplish if you do not care who gets the credit

Crowned in the race of growth

MADUYA PRADESU



Just a milestone on the way to her destination Progressive Madhya Pradesh

The emerging new identity of Madhya Pradesh, is due to the perseverance, cooperation and ingenutry of her people. All sections of society have contributed in this growth; including the officers and emoloyees. We must not forget that we have to strive harder to reach our goals.

> Shivraj Singh Chaufuan Chef Moure



Asian School of Business announces admission for the Full-time PGPM, 2007-2009



Secouse Defen Cour To Dualiesa Mai dessains Mai Carl

Get ready for an extremely rewarding learning experience in business management at the Asian School of Business, Trivandrum. Here, a faculty of unmatched excellence together with an internationally benchmarked curriculum, a Governing Board comprising of academics and professionals with impeccable credentials and a state-of-the-art campus within Technopark will mould you into a competent management professional with a passion to lead. For a preview, log on to www.asb.edu.in

Admissions open to graduates with excellent academic record.

Application form and brochure will be couriered on receipt of a DD for Rs. 1000/in favour of 'Asian School of Business' payable at Trivandrum.



Asian School of Business

Because business is life

Technopark Trivandrum 695 581 Ph: 0471-5579001/2 Email: wilma@asb.ec

DIISSOISOFII TOTTIEVELISUOTIO



B.Sc. Nursing

K.V.S. COLLEGE OF NURSING

Approved by Indian Nursing Council (INC No. 1503033)
Recognised by Karnataka State Nursing Council
Affiliated to Rajiv Gandhi University of Health Sciences
(College Code B.Sc. (N) No. 17)

Lices in the political section of the control of th

For further details contact

The Secretary / Director - Mob : 0 9880544744



ALOGUESTE ESTE DEM BERS DE 18030 25306843

Administration of the second s

4 Johnson Martin 818.090 41248494





പാരഗൺ TMT കമ്പികൾ

നിങ്ങളുടെ വീടിന് കാലങ്ങളോളം നിലനിൽക്കുന്ന ഈടു നൽകുന്നു. ഇതിലെ ആന്റി കൊറോസീവ് ആക്ടിംഗ് ഏജന്റ് തുരുമ്പിൽ നിന്നും സംരക്ഷണം നല്കുന്നു. മറ്റേത് സ്റ്റീലിനെക്കാളും ഉറപ്പുള്ള പാരഗൺ സ്റ്റീൽ തന്നെയാണ് മികച്ച എഞ്ചിനിയർമാരുടെ ചോയ്സ്.

തെക്കേ ഇന്ത്യയിലെ ഏറ്റവും വലിയ സ്റ്റീൽ പ്ലാന്റിൽ നിർമ്മിക്കുന്നത്. 6mm മുതൽ 36mm വരെ ലഭിക്കുന്നു.











PARAGON STE

Katilkoca, Palakkad, Kerala, Tel. (AG1-258AIO, 258GS) FRI (25/18/14) FACKET GARNER MORE OF THE HE

40,000 0.00 A 60.64 10

Manufactures of CTD BAPS, TIXT BARS & POUNDS

Knowledge is now within every 'Vidyarthi's reach!





Education Loan now available at 10.5% p.a. (For Girl/V/omen students 10% p.a.)

Loan to ITT/IIM students at 10% p.a. (For Girl/Women students 9.5% p.a.

For students with talent and HIGHLIGHTS cut of reach. Central Bank's Cent Vidyarthi Loan erables you to concentrate on your academic and career goal, by offering easy finance for higher studies.

Let the cower of knowledge

- ambition, no dream is now . All Indian nationals having secured admission to course/ college/foreign university of choice are eligible.
 - Loan amount upto Rs. 7.50 lacs (for studies in India) and Rs. 15.00 lacs (for studies abroad).
 - No Security or Margin required for loans upto Rs. 4.00 lacs.
 - Latest interest rates apply.



Central Bank of India



WINNING IS ALL ABOUT PEDIGREE

GIVE YOURSELF A HEADSTART IN LIFE.

GET A PRESTIGIOUS BRITISH MANAGEMENT DEGREE IN INDIA!

At TASMAC - Pune, Bangalore & Kolkata, get globally recognized British Management Degrees validated & awarded by

UNIVERSITY OF WALES, U.K.

MBA

MASTER OF RUSINESS ADMINISTRATION

Specialisations: Finance, Marketing, Human Resource Management, Information Management and International Business

uration: 1 Year (Full Time) 2 Year (Part Time)

Mybility: A good backelor's degree from a econtried university OR Hon-graduates over he and of 25 years who can demonstrate elevant and appropriate prior learning treprience that would enable them to portabula and tened to morbibula and the programme.

MSc

IN INFORMATION SYSTEMS
(Pune and Bangalore Compuses Only)

The Master of Science Programme in Information Systems is designed to prepare students to meet the demand of designing and developing software-intensive information systems.

Duration: 1 Year (Full Time)

Eligibility: A good bachelor's degree from a recognised. University OR Non-Graduates over the age of 25 years who can demonstrate relevant and appropriate prior learning experience that would enable them to contribute to and benefit from the programme.

BA (Hons)
IN BUSINESS ADMINISTRATION

Specialisations : Finance, Marketing, Management and Information Management

Duration: 3 Academic sessions (6 semesters of 4 months each + 6 months project study)

Eligibility: 10 + 2 / Intermediate / Pre University Certificate OR over 21 years of age with relevant vocational experience.

FEES: £ 4950 OR equivalent Indian Rupees

FEES: £ 3000 OR equivalent Indian Rupees

SETTING DUALITY BENCHMARKS

- TASMAC is Ranked A+ by Business India in its annual survey on Indian B - schools for two consecutive years (2004 & 2005) placing it in the top bracket.
- TASMAC is the first institution outside Europe and the only institute in India to be accredited and recognised by the British Accreditation Council, U.K.
- TASMAC is India's first ISO 9001:2000 certified management Institute.

Programme Highlights/Advantages • Opportunity to get a British Management Degree right here in India • The degree is awarded by University of Wales, the second largest University and one of the 4 Federal Universities in U.K. • Programmes are contemporary and forward looking in nature • Programmes include core training in transferable skills • British Degrees are valued and respected worldwide • Programmes accelerated in nature, thus helping students enter employment earlier. • Fees much lower compared to similar programmes in U.K. In addition, students save on travel, accommodation and other expenses.

Placement Support - TASMAC has received an overwhelming response from the Industry and assists their students in getting good placements.

ADMISSIONS OPEN FOR FEBRUARY 2007 INTAKE

Complete prospectus / application form available for Rs. 8001- by DD / MO
The application can also be downloaded from our website by paying through Credit Card. For FREE details contact:



TASMAC TRAINING & ADVANCED STUDIES
IN MANAGEMENT AND COMMUNICATIONS LTD.

www.tasmac.ac.in/wales E-mail: wales@tasmac.ac.in

COPPORATE DEFICE AND PUNE CAMPUS:

INJUSTICAL HOUSE, TASHING ROAD, VITTON Nagar,

Part 11314 1171 July 1

Pre-411314 (htts) Tel:+91 (0)20 56003871/ %373272763245/26532333-563534/56001431, 15 -31 (7 000632362 BANGALORE CAMPUS: TASMAC House, 7th Milestone,

Kudalu Gate, Hosur Main Road, Bangalore - 560 068 Tel:: 080 32509800/01/02/03 <u>KOLKATA CAMPUS</u>: TASMAG House, 27, GN Block, Near Godrej Factory, Sector V, Sah Lake City, Kolkata - 700 091, Tel.: +91 (0)33 23572551/52/53

UNIVERSITY

Pent Office : Almedated : 213, University Plaza, Near Ras Ranton Visso Cambridge Und Extract Point 107 Engade Ros. Oartifus Commond E. Iding H. B. Road, Path. Fax: +91 (0)33 23572554

AY SUCCESS SAY NEW LIGHT

ulars Price (Rs.) Pai	ticulars	Price	(Rs.)	Parti	culars	Price	(Rs.)
REIGN REPRINT	_	FOR EN	NGG., IIT/			BJECTI	VE SERIE	S
	· .	MEDICA	L EXAMS			Objective Pl		60
			44004 0005	. 405		Objective Ch		85 60
Hypnotise Yourself & Others 60 Read Palms 35			pers (1994-2005	195 695		Objective Bo Objective Zo		60
Read Palms 35) Medical Ent 4 Ali India Pre		093		Objective M		75
LISH IMPROVEMENT	14-21	Pre-Dental (455	N-245	Objective Br	ology	75
	N-31	CEEE Guid			N-269	Objective Pl	nysics	75
Grammar & Composition 56	0		ge of Engg.)	525			Objective English	70 99
General English 6	- 14-50	3 AIEEE Guid	le	695	14-245	Objective G.	۸.	33
20 Days to English Vocabulary 4	0	DEC DOD I	ATTIVATE OU		ļ.	QUIZ	BOOKS	
Better English 4		DES FOR I	RAILWAY EX	3101	N.345	GK Quiz		50
How to Write Effective English 4	* W-15		ecruitment Exan		N-346	India Quiz		45
Words Often Confused 45 Spoken English 5			way_Examination	on	N-347	Sports Quiz		45
oponen anguen	-	Guide (Gro	up D)	80	N-348	Geography (Quiz	50
A to Z Quotations 5: A to Z Idioms and Phrases 5:	6	HDES FOR	R BANK EX	SIME		Science Qui Computer Q		45 45
A to Z Proverbs 5		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				The World F		55
A to Z Synonyms and Antonyms 5	s N-11		robationary Office			Maths Quiz		70
Basic English Grammar for	14-22		tionary Officers		N-410	History Quiz		70
Schools 6	o N-30	1 Bank Clenc	al Exams	140		OMPHT	ER BOOK	3
Dictionary of kiloms and Phrases 9	9 I EV	D OTHER	COMPETIT	IVE	. —			
Correct English Usage 6				1417		Computer for Internet Ess		125 160
2 Dictionary of Quotations 11	0 1	EX	AMS			E-Commerci		85
3 Instant Vocabulary Builder 8	5 N-14	9 NDA Exami	ination Guide	395	N-379	Browsers		85
B Dictionary of Synonyms .		3 CAT Guide		335	J N-380	The How &	Why of Internet	
and Antonyms 15	0 N-22		gement Entrand		N-381	Computer P	rojects	195
5 English Conversation 6	5 1125	Exam Guide	e onal Talent Searc	275 h) 175		DICTIO	DNARIES	
			easoning Ability		N-204	English-Hind		80
ESSAY WRITING		8 MBA Entr. I		365		English-Man		39
3 School Essays, Letters &		9 CDS Exam		335		English-Hind		45
Paragraphs (For Seniors) 4		8 Test of Rea		125		Geography D		110
11 School Essays, Letters	N-33	7 LIC (AAO)	Guide	265		Chemistry Di		125
		0 MAT Guide 2 NIFT/NID E	vam Guida	355 225		Accounts Did		Press
🗴 निबन्ध (चना 💢 🔾		8 MCA Entr.		365	14-415	Maths Dictor	iary in	Press
· · · · · · · · · · · · · · · · · · ·	1 41 00	4 Success in		60		MISCEL	LANEOUS	
१३ प्राथमिक स्कूल निवन्ध एवं पत्र ३		6 BCA Entr. I		215	N-176	Numerology	for Everybody	27
		7 BBA/BBM F		195		You and Yo		25
44 136 Essays for College &		8 SSC Comb		225		How to Play		45
Competitive Exams 9	99 N. 36	Graduate L	evel Matric Level Gui	225 de 120			by to Play Chess	
Advanced Essays for College	11 2	3 BIT Entr E		215		Secrets of S Astrology fo		65 30
and Competitive Exams 15	N-37	78 SSC Section	on Officers (Aud	ld) 215			ok of Astrology	75
* FITER WRITING	¹ N-38	7 (CPO) Central	l Pobce Organisato	n 195	N-291	How to Solve Y	our Personal Problem	s 65
	- N-31	O SSC Matric	(Main)	105			eve Total Succes	
The case is for Deller Jobs 2			nce Exam Guid	e 140 175			Super Salesmai	
Calcus AA	" N.AI	35 LLB Entran	ice Guide Central & Excise Gui		N-322 N-323	Hypnotism a	and Yourself a Powerful Personal	35 84 65
	DU N-41		y Teacher Trainir			Palmistry fo		25
O Love Letters	40 N-41	2 SCRA Guid		455	N-349	The Art of I	Public Speaking	65
5 Top Every Day Letters	55 —		3738100 4 7500	ma	N-356	Book of Bal	by Names	40
1111 Letters for All Occasions	₅₅ (i.K., CURI	RENT AFFA	IKS		Jokes for A		40
74 How to White Better Letters !	55 N-2	6 G K. & Cui	rrent Affairs	80		Treasure of Crazy Joke:		40 35
117 Perfect Letter Whiter	65 N-7	7 Encyclopae	dia of GK	225	N-406	Children Jo	, kes	40
27 Model Business Letters		77 Handbook		50		How to Live		55
Dynamic Letters (ec N-3		ligence for Stud		N-386	Great Scien	itists	75
AD Sandy Day	M-2	34 सामान्य ज्ञा ^न 84 G.K. Who':		80 20			ous Personalities	
							ous Speeches	130
Bunge Series — Lea	1			~			. 1 /7.	••

Postage Rs. 40 by Bank Draft/M.O. Prices are subject to change without notice.

bestos - lined warship Clemenceau back home ·Dalai Lama's envoys are in China for secret talks on more autonomy for Tibet Bird flu deaths reach 91 worldwide; 16. Dead swans in Germany are found carrying the strain of H5N1 • US Vice President Dick Cheney takes responsibility for accidentally shooting a fellow hunter •After five days of protests over election results, Rene Preval, a champion : of the poor, is declared President of Haiti •UN says 1200 people are dying in DR Congo everyday from war-related causes *Pakistan's Asif Ali Zardari is declared a proclaimed offender by a court *Army helicopters bomb rebel positions in Nepal's mountainous districts • Turkmenistan to supply 3.2 b.c. feet gas per day to Pakistan *Iran orders enquiry into claims that a police death squad has been operating in the country •Pakistan not to allow import of items from India other than the 773 permitted under the 'positive list' •France says Iran's nuclear programme is a 'clandestine military' project •China accuses the Dalai Lama of 'Internationalising' the Tibet issue •Thousands rally against Prophet cartoons in Pakistan: 17. French actress Eva Green chosen as the new James Alanorama Yearbook 2007

600,000 more people to quit

smoking from 2007 • French

President Chirac orders the as-

cases, followed by two more in Greece, one more in Austria; Middle East and Africa alerted • EU opens up service industries like plumbers, hairdressers, etc. • Ismail Haniya, Hamas leader in Gaza, tipped to become Palestinian Prime Minister • Philippines landslip kills about 2000, a village is wiped out • Rebels say oil firms must leave Nigeria; 18. Philippines landslide toll put at 1800 •11 killed in protests against Prophet cartoons in Libya •A 62-year-old woman of Redding, USA gives birth to a 2.3 kg baby, her 12th child •France reports first case of H5N1 bird flu •US Defence Secretary Rumsfeld says Kofi Annan is wrong in calling for the closure of the military-run detention centre at Guantanamo Bay; 19. Israel imposes sanctions against Hamas-led Palestinian government ·Crown Prince Frederick of Denmark voted the most romantic man in an opinion poll •15 killed in cartoon protests in Nigeria • Tony Blair calls the US detention camp Guantanamo Bay an'anomaly' •Iran sticks to its 'right' to enrich uranium on its own soil; 20. Osama Bin Laden says in the latest tape that he will

search shows that one in four

Bond girl • Japanese economy

grew at 5.5% annual pace in

the fourth quarter . Bird flu

reported in Slovenia, Ger-

many discovers 10 more

gin amid bombing scare; 21. Iran says it would no longer hold nuclear talks with EU-3, but will hold talks with Russia Pak President Musharraf says though CBMs are going ahead, not much progress has been made on 'conflict resolution' with India •More violence in Nigeria on cartoon issue, curfew imposed • 22 die in Iraq blast; 22. 4 out of 10 babies in UK are born to unmarried mothers *200 m. birds killed or culled in 32 countries, following bird flu threat •OIC denounces the fatwa for killing the Danish cartoonist for drawing caricatures of the Prophet; 23. Roof collapse kills 45 in Moscow •Sectarian clashes kill 140 people in Iraq • Muslims flee the Nigerian city Onitsha as sectarian violence kills 80 persons •Lindsay Davenport beats Elena Likhovtseva to attain her 700th singles victory at the Dubai Open •Armed robbery at a Bank of England depot in Tonbridge, London - £ 40 m. stolen by a gang never be captured alive •Reposing as police officers; 24.

Suicide bombers try to storm

British workers has a second

iob •Sri Lanka moots the idea

of a Buddhist pilgrimage trial

to attract tourists from China,

lapan & Korea • 23 killed in at-

tacks in Iraq •Movement for

the Emancipation of the Niger

Delta attacks oil facilities in Ni-

geria •Bird deaths create

panic in Britain; H5N1 reaches

Germany •Sri Lanka talks be-

MIDDLESEX UNIVERSITY London

The preferred choice of Indian students to study in the UK





- University located in LONDON
- Spot Admissions in India
- Merit Scholarship
- Credit Transfers into 2nd & 3rd year possible
- Guaranteed University Accommodation
- Advice on work permits & student visa
- FREE admission assistance

Over 100 different courses offered in

- ◆ Art, Design & Performing Arts
- ◆ Biological & Environmental Studies
- ◆ Computing Science & IT
- ◆ Humanities, Law & Tourism
- ◆ Marketing & Management
- ◆ Media & Journalism

Two intakes in a year - Sep & Jan

Partner of the British Deputy High Commission Promoting Education in the UK."

Please Contact:

Delhi: 301 & 302/17, Bhanot House, Commercial Complex, Gulmohar Enclave, New Delhi - 110049, Phone: 011-46066014, 46066015

Email: delhi@mdxsouthasia.com

Chennai: No.1, 2nd Floor, Salzburg Square, 107, Harrington Road, Chetpet, Chennai - 600031. Phone: 044-28362965, 28362975 E-mail: chennai@mdxsouthasia.com

Hyderabad: Flat 401,3rd Floor, Ushakiran Arcade, Osmania University Road, Vidya Nagar, Hyderabad - 500044. Phone: 040-27070785 / 65525592 E-mail: hyderabad@mdxsouthasia.com

Mumbai: 501, A.N. Chambers, Tumer Road, Bandra (West), Mumbai-400050. Phone: 022-32975479 / 26404907 / 26404127 Mobile 98200 12869 E-mail: mumbai@mdxsouthasia.com

Ahmedabad: 105, Anand Mangal-3, Opp. Doctor House, Nr. Parimal Garden, Ellisbridge, Ahmedabad-380006. Phone. 079-30071268 / 26401412. E-mail: quirat@mdxsouthasia.com

Middlesex University Interna

the world's biggest oil processing plant in Saudi Arabia • £2 m. reward announced in the bunt for £50 m. British robbery gang • The four Asian cricketing nations - India, Pakistan. Sri Lanka Bangladesh - to jointly bid for the 2011 World Cup • 54 die in Bangladesh textile mill fire A coup attempt by a section of the armed forces in Philippines crushed and emergency declared: 25. China rules that all death penalty cases be heard in an open court . NASA's Mars Reconnaissance Orbiter, launched on Aug. 12, 2005, is nearing the Red Planet; 26. Jamaica to have Portia Simpson Miller as Prime Minister, the first woman head of state • H5 subtype bird flu found in a dead duck in Geneva • Prison riot in Afghanistan, with 1500 prisoners (mostly Al Qaeda and Taliban men) in control of a block of the main jail . Drought hits Kenya's wildlife. cattle and citizens • US Ambassador to UN John Bolton criticises UN for bad management and corruption • China warns of bird flu epidemic; 27. According to US Dept. of Commerce's Census Bureau, India with 1.6 b. population will outrank China with 1.4 b. by 2050 •Sri Lankan President Rajapakse's electoral allies JVP and JHU reject the Geneva

Bosnia genocide case • EU releases 121.5 b. euros in aid to bolster the Palestinian caretaker government • Singer Michael George is held in drug case: 28. 30 killed in three explosions in Baghdad Bird flu reported in parts of Pakistan's NWFP • IAEA says it hasn't found any evidence that Teheran had diverted material towards making atomic weapons •2000 Afghan prisoners resume rioting • US provides Pakistan with new missile to hit terrorist hideouts.

March

Mittal the 5th Billionaire 1. H5N1 bird flu infects a German cat • 23 killed in a Baghdad car bomb attack • George Bush says that Bin Laden will be brought to justice •Beijing launches campaign to stamp out public spitting and littering, ahead of 2008 Olympics; 2. Five persons killed and 50 injured in a suspected case of suicide bombing outside the American consulate in Karachi • An Italian investigative commission says USSR was behind the assassination attempt on the Pope in 1981; 3. 19 more killed in Iraq in sectarian clashes • Emergency lifted in Philippines • Vienna talks between EU and Iran end without any agreement; 5.

Ramzan Kadyrov appointed

Prime Minister of Chechnya •

Ninth bird flu death reported

Thai Prime Minister Thaksin stepped up • Political parties, media and religious leaders in Pakistan express dissatisfi-cation over President Bush's visit to the country; 6. Oscar Awards announced: 'Crash' is best film, Philip Seymour Hoffman - best actor. Reese Witherspoon - best actress and And Lee-best director • Former rebel Croatian Serb leader Milan Babic commits suicide • Iran says it will not give up the right to smallscale enrichment • IAEA chief hopes agreement will reached soon to ease Western fears over Iran's nuclear progra-mme • Official enquiry finds no evidence of foul play in the accident that killed Diana • Israel to withdraw from more than a dozen settlements in the West Bank; 7. Bird flu spreads to Russia; 800,000 birds culled; 8. Fiji President Ratu Josefa Iloilo is re-elected •South Dakota state bans abortions •Britain's immigration norms tightened Security council to take up Iran's nuclear case; 9. UN says bird flu will cross the Atlantic to the Americas within a year Iran says the move to send the nuclear issue to Supreme Court is part of a psychological war master- minded by USA and aimed at undermining the nation's clerical rulers Venezuelan national flag undergoes changes - an 8th star and a turnabout of the horse;

in China • Campaign against

agreement between Colombo

and LTTE . The International

Court of Justice opens the !

ABAN OFFSHORE LIMITED

ONN STATE OF THE S

្រុក្ស និងពេធម្នាក់ន

and in the contrasting on opportunities



10. Forbes billionaires are 793 in number, with a combined wealth of \$2.6 trillion, headed by Bill Gates worth \$ 50 b. The fifth in the list is Lakshmi Mittal worth \$23.5 b. •Michael Jackordered close to Neverland Valley Ranch •30 killed in a blast in Baluchistan President Bush's approval falls • USA to close the Abu Ghraib prison •'Lands Act' promulgated by LTTE, with provisions for distributing agricultural land; 11. Former Yugoslavia leader Slobodan Milosevic is found dead in his prison cell near the Haque NASA spacecraft reaches orbit around Mars •30 militants killed in Pakistan's strife-torn tribal region; 12. Blood tests prove that Slobodan Milosevic took drugs to worsen his health and bolster his case for treatment in Russia: 14. Sectarian killings in Iraq number 85 in 24 hours •Britain to withdraw 800 troops from Iraq this spring •Chinese Prime Minister says once India and China realised their full potential, it would herald the dawn of a new 'Asian century' elsrael raids Jericho jail; 15. Saddam Hussein denounces his trial as a 'comedy' •Half the French universities remain closed as protest? against terms of the new job contract for young people; 16. President Bush says relations with India are on 'a new and fruitful path' •The 4th World Water Forum to begin

in Mexico City on Mar. 23 •Iran expresses willingness to open a dialogue with US on Iraq •Ibrahim Jaafari offers to quit the race for Iraq premiership; 18. Thousands bid farewell to Slobodan Milosevic in Belgrade, ahead of his burial •Hamas announces formation of its cabinet •French students clash with police outside Sorbonne University after 500,000 people protest nationwide against a new jobs law; 19. Nepal's seven-party alliance reaches agreement with Maoist rebels to oppose king: 20. Japan begins to issue biometric passports, meeting security measures imposed by US •Ford's Volvo Car to make sedans in China •A new literary prize for Asian anthors. Man Asian Literary Prize, launched by Man Group and Hong Kong Literary Festival •14 killed in clash between Nepalese security forces and Maoists •Belarus leader Lukashenko wins a third presidential term •Cyclone batters east coast of Australia •Iraq war enters the fourth year, 21. Pakistan reports the presence of bird flu virus •Cyclone renders 2000 people homeless in Innisfail, Australia •Swedish Foreign Minister Freivalds resigns after criticism of her handling of Asia's tsunami crisis •Russia and China sign three deals on oil and natural gas cooperation •Pa-

time its missile Halft VII (Babur) •Basque separatists declare a permanent ceasefire, after four decades of bombings and shootings in their campaign for indepdence from Spain . Russia not to support the draft on Iran nuke issue; 22. US military to investigate the killing of Iraqi citizens in the village of Al Bu Seija on March 15 • Dubai to have a 76 km metro rail system by 2009, at a cost of \$3.96 b. •Bird flu toll reaches 103 •US military to investigate the killing of Iraq citizens •A Saudi film, 'Keif-al-Hal' (How Are You?) featuring the first silver screen actress from that country to be shown in West Asia soon; 23. Ferry sinks off the coast of Cameroon -127 feared drowned • Pakistan and China to begin bus service from June 1 •Nepali communist leader Madhay Nepal whisked away to an unknown place by security forces: 24. 70 die in Mogadisho fighting between rival Somalia militia : and a new 'anti-terror' alliance •15 new cardinals are installed by the Pope, raising their number to 193 • China confirms death of a woman from bird flu •Shootings and bombings kill 17 in Iraq Nepal Supreme Court upholds the ban on Maoists; 25. Parliamentary election in Ukraine •Opponents Thaksin ask Thai King to appoint a new Prime Minister kistan test-fire for the second (•An Afghan man faces pos-



Embrace a bright future with the best career-oriented education!!

University Courses Offered

B.E. (Bachelor of Engineering) Computer Science, Telecommun'cation, Electronics & Communication, Information Technology.

BBM (Bachelor of Business Management)

B. Sc. Fashion and Apparel Design (FAD)

B. A. Journalism

B. Sc. Hursing (Affiliated to RGUHS, Recognised by INC & KNC) Diploma in General Hursing (Recognised by INC & KNC)

B. Pharma (Recognised by RGUHS & PCN

B. Sc. (Bio-Tech/Bio-Chem/Genetics)

B. Sc. (Computer Science)

B. Com (Computers)

BHM (Bachelor of Hotel Management)

BCA (Bachelor of Computer Applications)

B. Fd.

M. Sc. (Bio-Technology) M. Sc. (Bio-Chemistry) MTA (Master of Tourism Administration) MCA (Master of Computer Application) MBA (Master of Business Administration)



All courses approved by the respective Govt. / Competent Bodies like AICTE, Bangafore University, Rajiv Gandhi University of Health Sciences, Pharmacy Council of India etc.



T. John Group of Institutions

Campus : Gottigers Post, Bannerghaffa Road, Bangstore-163 \$13, F

 T. John College
 T. John Institute of Manage &Science•T. John Institute of Technology•T. John Institute of International Studies+T. John School of Nursing •T. John College of Nursing •T. John College of Pharmacy



ricultural land; 11. Former Yugoslavia leader Slobodan Milosevic is found dead in his prison cell near the Hague NASA spacecraft reaches orbit around Mars •30 militants killed in Pakistan's strife-torn tribal region; 12. Blood tests prove that Slobodan Milosevic took drugs to worsen his health and bolster his case for treatment in Russia: 14. Sectarian killings in Irag number 85 in 24 hours •Britain to withdraw 800 troops from Iraq this spring •Chinese Prime Minister says once India and China realised their full potential, it would herald the dawn of a new 'Asian century' •Israel raids Jericho jail; 15. Saddam Hussein denounces his trial as a 'comedy' •Half the French universities : remain closed as protest against terms of the new job contract for young people; 16. President Bush says relations with India are on 'a new and fruitful path' •The 4th · World Water Forum to begin Manorama Yearbook 2007

0. Forbes billionaires are 793

number, with a combined

realth of \$2.6 trillion, headed

y Bill Gates worth \$ 50 b. The

fth in the list is Lakshmi Mittal

vorth \$23.5 b. •Michael lack-

to

ordered

ดก

(Babur) •Basque separatists Iran expresses willingness to declare a permanent ceaseopen a dialogue with US on fire, after four decades of Iraq •Ibrahim Jaafari offers to bombings and shootings in quit the race for Iraq premiership; 18. Thousands bid farewell to Slobodan Milosevic in Belgrade, ahead Neverland Valley Ranch •30 of his burial •Hamas ankilled in a blast in Baluchistan nounces formation of its cabi-President Bush's approval net •French students clash falls • USA to close the Abu Ghraib prison •'Lands Act' with police outside Sorbonne promulgated by LTTE, with University after 500,000 provisions for distributing aqpeople protest nationwide against a new jobs law; 19. Nepal's seven-party alliance reaches agreement with

Maoist rebels to oppose king:

20. Japan begins to issue bio-

metric passports, meeting se-

curity measures imposed by

US •Ford's Volvo Car to make

sedans in China • A new liter-

ary prize for Asian anthors.

Man Asian Literary Prize.

faunched by Man Group and

Hong Kong Literary Festival

in Mexico City on Mar. 23

•14 killed in clash between Nepalese security forces and Maoists •Belarus leader Lukashenko wins a third presidential term •Cyclone batters east coast of Australia *Iraq war enters the fourth year, 21. Pakistan reports the presence of bird flu virus •Cyclone renders 2000 people homeless in Innisfail, Australia •Swedish Foreign Minister Laila 1 Freivalds resigns after criticism of her handling of Asia's tsunami crisis •Russia and China sign three deals on oil and natural gas cooperation •Pa-

kistan test-fire for the second

their campaign for indepdence from Spain • Russia not to support the draft on Iran nuke issue; 22. US military to investigate the killing of Iragi citizens in the village of Al Bu Seila on March 15 • Dubai to have a 76 km metro rail system by 2009, at a cost of \$3.96 b. •Bird flu toll reaches 103 *US military to investigate the killing of Irag citizens •A Saudi film, 'Keif-al-Hal' (How Are You?) featuring the first silver screen actress from that country to be shown in West Asia soon; 23. Ferry sinks off the coast of Cameroon -127 feared drowned *Pakistan and China to begin bus service from June 1 . Nepali communist leader Madhay Nepal whisked away to an unknown place by security forces; 24. 70 die in Mogadisho fighting between rival Somalia militia 🤌 and a new 'anti-terror' alliance •15 new cardinals are installed by the Pope, raising their number to 193 • China confirms death of a woman from bird flu .Shootings and bombings kill 17 in Iraq Nepal Supreme Court upholds the ban on Maoists: 25. Parliamentary election in Ukraine •Opponents Thaksin ask Thai King to appoint a new Prime Minister *An Afghan man faces pos-

time its missile Halft VII





Embrace a bright future with the best career-oriented education!!

University Courses Offered

B.E. (Bachelor of Engineering) Computer Science, Telecommunication, Electronics & Communication, Information Technology.

BBM (Bachelor of Business Management)

B. Sc. Fashion and Apparel Design (FAD)

B. A. Journalism

B. Sc. Hursing (Affiliated to RGUHS, Recognised by INC & KNC)
Diploma in General Hursing (Recognised by INC & KNC)

B. Pharma (Recognised by RGUHS & PCI)

B. Sc. (Bio-Tech/Bio-Chem/Genetics)

B. Sc. (Computer Science)

B. Com (Computers)

BHM (Bachelor of Hotel Management)

BCA (Bachelor of Computer Applications)

B. Ed.

M. Sc. (Bio-Technology)

M. Sc. (Bio-Chemistry)

MTA (Master of Tourism Administration)

MCA (Master of Computer Application)
MBA (Master of Business Administration)

INTERNATIONAL
Twinning programmes
THE A BBA
Call:098451 48296
FEE Street Page

All courses approved by the respective Govt. / Competent Bodies like AICTE, Bangalore University, Rajiv Gandhi University of Health Sciences, Pharmacy Council of India etc.



T. John Group of Institutions

Website: www tjohncollege.com

Tel : 91-20-25597817, 25092057, 41320169, 28429523-24/25 Campus : Gottigers Post, Bannerghatta Road, Bangalore-560-083, INDIA

•T. John College•T. John Institute of Management &Science•T. John Institute of Technology•T John Institute of International Studies•T. John School of Nursing •T. John College of Nursing•T. John College of Pharmacy



in number, with a combined

wealth of \$2.6 trillion, headed

by Bill Gates worth \$ 50 b. The

fifth in the list is Lakshmi Mittal

worth \$23.5 b. •Michael lackordered

Neverland Valley Ranch •30

killed in a blast in Baluchistan

President Bush's approval

to

falls • USA to close the Abu Ghraib prison *'Lands Act'

promulgated by LTTE, with provisions for distributing aqricultural land; 11. Former Yuqoslavia leader Slobodan

Milosevic is found dead in his prison cell near the Haque •NASA spacecraft reaches orbit around Mars •30 militants

killed in Pakistan's strife-torn tribal region; 12. Blood tests prove that Slobodan Milosevic took drugs to worsen his health and bolster his case for

treatment in Russia: 14. Sec-

tarian killings in Iraq number 85 in 24 hours •Britain to

withdraw 800 troops from Iraq this spring •Chinese Prime Minister says once India and China realised their

full potential, it would herald the dawn of a new 'Asian cen-

tury' •Israel raids lericho jail; 15. Saddam Hussein denounces his trial as a 'comedy' •Half the French universities remain closed as protest Foreign against terms of the new job contract for young people;

16. President Bush says relations with India are on 'a new and fruitful path' •The 4th World Water Forum to begin . premiership; 18. Thousands bid farewell to Slobodan Milosevic in Belgrade, ahead of his burial . Hamas an-

in Mexico City on Mar. 23

•Iran expresses willingness to open a dialogue with US on

Iraq •Ibrahim Jaafari offers to

quit the race for Iraq

nounces formation of its cabinet •French students clash with police outside Sorbonne University after 500,000 people protest nationwide against a new jobs law; 19.

Nepal's seven-party alliance reaches agreement with Maoist rebels to oppose king; 20. Japan begins to issue biometric passports, meeting security measures imposed by

(How Are You?) featuring the first silver screen actress from that country to be shown in US •Ford's Volvo Car to make West Asia soon; 23. Ferry sinks sedans in China • A new literary prize for Asian anthors, Man Asian Literary Prize.

launched by Man Group and Hong Kong Literary Festival •14 killed in clash between Nepalese security forces and Maoists •Belarus leader Lukashenko wins a third presidential term •Cyclone batters east coast of Australia •Iraq

war enters the fourth year: 21. Pakistan reports the presence of bird flu virus . Cyclone renders 2000 people homeless in

Innisfail, Australia •Swedish Minister Freivalds resigns after criticism of her handling of Asia's tsunami crisis •Russia and China sign three deals on oil and

natural gas cooperation •Pa-

off the coast of Cameroon -127 feared drowned • Pakistan and China to begin bus ser-

time its missile Halft VII (Babur) •Basque separatists

declare a permanent cease-

fire, after four decades of

bombings and shootings in

their campaign for indepde-

nce from Spain • Russia not

to support the draft on Iran

nuke issue; 22. US military to

investigate the killing of Iragi

citizens in the village of Al Bu

Seija on March 15 • Dubai to

have a 76 km metro rail sys-

tem by 2009, at a cost of

\$3.96 b. •Bird flu toll reaches

103 •US military to investi-

gate the killing of Iraq citizens

•A Saudi film, 'Keif-al-Hal'

vice from June 1 •Nepali communist leader Madhav Nepal whisked away to an unknown place by security forces; 24. 70 die in Mogadisho fighting between rival Somalia militia

and a new 'anti-terror' alliance •15 new cardinals are installed by the Pope, raising their number to 193 • China confirms death of a woman from bird flu •Shootings bombings kill 17 in Iraq

•Nepal Supreme Court upholds the ban on Maoists; 25. Parliamentary election in Ukraine •Opponents to Thaksin ask Thai King to appoint a new Prime Minister kistan test-fire for the second An Afghan man faces pos-

SBM GNANAMITRA Educational Loan

Start off your education confidently.
Finish off conveniently.

- For all technical/professional/specialized postgraduate studies in India and abroad.
- Loans up to Rs. 10.00 lakhs for studies in India and up to Rs.20.00 lakhs for studies abroad.
- Convenient repayment terms.
- Quick processing.
- No processing charges

Complete loan protection* from ◆ SBI life

For further details contact your nearest branch today!



STATE BANK OF MYSORE

Working for a better tomorrow

www.statebankofmyscra.co.in

sible death sentence for converting from Islam to Christianity •French students snub

Prime Minister's offer for talks •Lakshmi Mittal's 18.6 billion euro takeover bid for Arcelor

is blocked by a change in Luxembourg corporate law; 26. Rebels clash with troops in Baluchistan, four killed •Ban

on smoking in Scotland; 27. UN prosecutor asks Nigerian President to arrest Charles Taylor, former President of Liberia, to avoid the possibil-

ity of his fleeing to evade arrest •Biggest share of votes for pro-Russian Yanukovich, in Ukraine •Tony Blair says Iraq and Afghanistan are 'decisive'

battlegrounds' for Western

values *Four Poles are kidnapped by Nepal Maoists Suicide bomber blows himself up at an army recruitment centre, killing 40, in northwest Iraq •Asian workers in Dubai are up in arms against poor living conditions: 28.Scientists are hopeful that they may soon have a pill to treat HIV ! infection •87% of software

that he was supposed to hijack a fifth jet airliner on 11/ 9/2001 and hit White House Pope intends to visit China •US senate panel votes to increase H-1B visas to 300,000

sold in Indonesia in 2005 was

pirated •Al Qaeda conspirator

Zacarias Moussaoui tells jurors

a year: more visas for nurses and agricultural workers, ille- a dentified gal aliens in USA are nearer to . Fernando Alonso wins the citizenship; 29. Solar eclipse Australian Formula One

Party wins Israeli elections •Former Liberian warlord Charles Taylor flown back to his homeland from Nigeria

observed in Turkey •Kadima

 Trade unions and students in France shun talks with Prime Minister: 30. Iran refuses to comply with Security Council demand for an end to the uranium enrichment

 Hamas cabinet of Palestine led by Prime Minister Ismail Haniveh sworn in •Gold is \$580 an ounce •Local government elections in Sri Lanka China overtakes lapan to

become the largest holder of foreign exchange reserves in the world, estimated at \$854 billion: 31. China to install a huge 35-tonne stone statue of Mao Zedong in Tibet • Earthquake in western Iran (6.0 magnitude) kills Supermodel Naomi Campbell arrested for allegedly assaulting her housekeeper •57 in-

cluding 18 Indians, die when

a boat carrying 137 passen-

gers capsize near Manama.

Bahrain •Iran testfires locally made missile •In Sri Lanka. UPFA sweeps the election to local bodies

April

Storms Batter USA 1. Mars spacecraft begins or-

bit . Sayed Sadeq, speaker of

a northern Afghan provincial legislature, shot dead by uniqunmen;

of the death of Pope John Paul II • Maoists abduct 56 people in Nepal • Saudi Arabia reduces the reservation for nationals from 30 to 10 percent in certain job categories • Election in Thailand •Iran testfires a new high speed underwater missile capable of

destroying huge warships and

Grand Prix • First anniversary

submarines; 3. Australia and China sign a nuclear safequards deal •Iran says it will test more weapons in the next few days . Maoists announce ceasefire in Nepal • A research team identifies a new source of Nile in Rwanda's southern Myungwe Forest Storms batter eight US states across the Midwest with tor-

nadoes; 4. Saxony is the

worst-affected by floods in

Germany •Scientists in Bos-

ton rebuild the bladder, a

complex human organ, •Wen liabao is the first Chinese Prime Minister to visit Fiii UN says it will take 10 years to get rid of the millions of land mines in 82 countries . British public tells Tony Blair to get out of Irag . Charges that Saddam Hussein committed genocide against Kurds have been handed to the prosecution • Astronomers say they have spotted a cloud of alcohol in deep space that measures 463 b, km across •French Open winning men

and women champions to get

equal prize money •Women

in Kuwait vote and run for of-

SBM GNANAMITRA Educational Loan

Start off your education confidently. Finish off conveniently.

- For all technical/professional/specialized postgraduate studies in India and abroad.
- Loans up to Rs. 10.00 lakhs for studies in India and up to Rs.20.00 lakhs for studies abroad.
- Convenient repayment terms.
- Quick processing.
- No processing charges

Complete loan protection* from ♠ SBI life

For further details contact your nearest branch today!



STATE BANK OF MYSORE

Working for a better tomorrow www.statebankofmysore.co.in

First Karnataka based Bank with fully Networked Branches

TAPLIAS.

fice for the first time, in a local by-election: 5. US Secretary of State asks for Congress support for the nuclear pact with India . Thailand Prime Minister Thaksin Shinawatra resigns; Chidchei Vanasatidya is interim premier • Nepal government arrests about 150 persons and clamps night curfew in the capital in an attempt to thwart the anti-king general strike: 6. Luxembourg drops a proposed change in its takeover laws that would have helped Arcelor fend off Mittal Steel's \$25 b. takeover bid • Gold zooms to \$600 an ounce • 69 die as boat capsizes off Djibouti; 7. Dan Brown wins the legal battle over claims that he had copied the idea of 'The Da Vinci Code' from another book •V. Vigne-swaran, a pro-LTTE Tamil activist, shot dead in Colombo •Over 750 held in Nepal on the second day of Opposition strike.8. Pakistan to go to the polls in February 2008 •Five inspectors from tAEA arrive in Iran to inspect the uranium enrichment and reprocessing facilities •Bomb kills four in Baghdad .A. Lukashenko of Belarus sworn in President the third time • Protester shot dead in Nepal •'Casablanca' named No.1 on the list of 101 Greatest Screenplays, by Writers Guild of America; 9. Brazil's first astronaut Marcus Pontes carried by Soyuz space capsule is back home from ISS; 10. Explosion (Qader Khan • Chad to cut off

kills 20 in Yuanping, in China •French President drops the controversial labour law •In Peru, no candidate wins 50 per cent of votes; runoff in May •Exit polls predict victory for Romano Prodi in Italian elections; 11. 45 die in a blast at a park in Karachi •Romano Prodi claims a knife-edge victory in Italy's election •Roche launches its anti-lung cancer drug Tarceva •Iran enriches uranium to the 3.5 percent level needed to fuel nuclear power stations • lapan Princess Aiko starts kindergarten •US says King Gyanendra of Nepal has failed to solve the country's problems •Non-European doctors in UK must have work permit, say new rules •EU increases pressure on Palestinian government to recognise Israel by suspending all direct aid •Israeli Prime Minister Sharon is declared by cabinet as permanently incapacitated •LTTE listed as terrorist group by Canada; 13. Iran again refuses UN call to suspend uranium enrichment activities in 30 days •LTTE calls for postponement of Geneva talks •IAEA chief El Baradei calls for a political solution to end Iran's nuclear crisis; 14. Nepal's political parties reject king's renewed pledge to hold elections •China relaxes foreign exchange control •US claims to have broken up the nuclear proliferation network of Pakistan nuclear scientist

the flow of oil if World Bank doesn't release funds frozen in a bank account in London •41 Taliban men killed in a battle with security forces in southern Afghanistan •Democracy activists seek Nepal King's exit; 17. Army deployed in Nepal to ensure that food trucks reached Kathmandu on the 12th day of a strike •India-S. Africa trade records a 75 p.c. increase •Oil hits \$70 a barrel on fears of US action against Iran •China's economy records 10.2% growth in O1: 18. Crude oil surges to \$ 70.65 a barrel: 19. Saudi King may mediate between India and Pakistan • South Korea has its first woman Prime Minister in Han Myeong-Sook Blasts in Lanka claim 10 •Nepal violence claims sixth victim •France says Iran with nuclear weapons is unacceptable; 20. Thousands take to the streets against the King in Nepal •Chinese President Hu Jintao has discussions with George Bush in Washington; 21. 40 persons drown in Bangladesh bus crash •Protesters in Nepal want the King to leave the country •Talks between South Korea and Japan on a dispute over the Dokdo islets fail •Indian doctors in UK protest against new immigration rules •Sweden goes green aiming to phase out nuclear power and end dependency on fossil fuels Milton's Paradise Lost to be turned into a movie epic; 22.

DR.M. V. SHETTY MEMORIAL TRUST (R) A. B. SHETTY CIRCLE, MANGALORE-575 001, (KARNATAKA) Phone: 0824-2421953, Fax: 0824-2427897						
www.drmvst.ac.in E-mail: drmvst@saricharnet.in						
APPROVED BY GOVT.	OF KARNATAI	KA ADMISSION 2007				
COURSE	DURATION	ELIGIBLITY				
B.Sc. Nursing (B) Reco. by INC & KNC	4 years	Pass in 10+2 with not less than 45% marks in PCB				
B.Sc. Nursing (PC) Reco. by INC & KNC	2 years	Pass in Gen.Nursing Pass in 10+2 & 2 yrs Experience				
M.Sc. Nursing Reco. by INC & KNC	2 years	Pass in B.Sc. Nursing 2 years experience Experience not required for B.Sc Nursing PC Qualification				
B.A.S.L.P. (Bachelor in Audiology and speech language **** Reco. by RCI	4 years	Pass 10+2 with Physics + Maths + Biology / Physics +Maths+Chemistry / Physics + Maths + Comp. Sc. / Physics + Chemistry + Biology/ Physics + Biology + Comp. Sc.				
M.A.S.L.P. (Master in Audiology and speech language pathology) Reco. by RCI	2 years (4 semesters)	Pass in B.Sc (Speech & Hearing) / BASLP				
B.P.T. (Bachelor in Physiotherapy) Reco. by I.A.P. & I.A.G.P.	4 years	Pass in 10+2 with not less than 45% marks in PCB				
M.P.T (Master of livslotherapy) Reco. by I.A.P. & I.A.G.P.	2 years	Pass in BPT/B.Sc. PT with 50% Marks				
B.Sc. M.L.T. (Medical Lab Tech)	3 years	Pass in 10+2 with PCB Subjects				
M. S. W. (Master of Social Work)	2 years (4 semesters)	Pass in 3 yr degree exam in Arts, Science, Commerce, BBM, Law, HRD with 45% marks aggregate of all subjects.				
M.Sc. in Hospital Management	2 years	Pass in any Degree exam with not less than 50% marks in aggregate.				
BHS Hotel Management Degree	2 years	Pass in 10+2 in any combination				
General Nursing Reco. by I.N.C.	3 years	Pass in 10+2,Preferably with science subjects.				

Chinese flee Solomon Islands

in the wake of unrest •Nepal's

political parties reject the King's offer of transferring executive power to the people; 23. Michael Schumacher wins San Marino Grand Prix • Russia begins deploving advanced air defence systems in Belarus near NATO's eastern border •Sri Lanka calls upon the international community to exert more pressure including sanctions on the LTTE; 24. Former Prime Ministers Benazir Bhutto and Nawaz Sharif plan to build a strategy to restore democracy in Pakistan • 22 dead and 150 hurt in blasts in Egyptian resort Dahab • Hannover Fair, opening today, has 5175 exhibitors from 66 nations, 25. Sarath Fanseka, Commander of the Sri Lankan Army, survives assassination attempt inside the Army Headquarters; eight killed as a woman suicide bomber blows herself up; situation tense in rebel-controlled eastern Trincom-alee district • 17 US States now have nosmoking laws; 26. Maoists lift their blo-ckade of Kathmandu and all district headquarters, in response to G.P Korrala's appeal; 27. Over 100,000 people meet in Kathma-ndu to hear party leaders on their plans for the country •India rejects Pak proposal to demilitarise J&K by pulling out heavy artillery; 28. A feminist

for young unmarried women •lAEA savs Iran is continuing uranium enrichment •A Pak court bans cable operators from showing 'Taj Mahal', being screened in theatres Parliament of Nepal meets for the first time in four years •Kaavya Viswanathan's novel How Opal Mehta Got Kissed being recalled from store shelves, after she admits to copying passages from another book; 29. Pakistan testfires its nuclear-capable missile Shaheen II • Malawi Vice President arrested on treason charges •Russia warns NATO against deploying forces in Eastern Europe and granting membership to Ukraine and Georgia •Hyundai chief Chung Mong-Koo arrested, on charges of embezzlement •Iran President says the country will master nuclear technology at any cost •China ratifies pact on nuclear wastes •Football club Chelsea is crowned champion of England; 30. Swedish King Carl Gusaf's 60th birthday •G.P. Koırala is sworn Nepal Prime Minister •Coal mine gas explosion in China's Yanan city kills 24 •Outgoing Italian Prime Minister Berlusconi announces his resignation. May

Gasline Explosion in Nigeria

in two separate attacks •Ra-

1. Seven killed in Sri Lanka

scrap the title 'Mademoiselle'

(India, Pakistan, Sri Lanka & Bangladesh) to host 2011 Cricket World Cup •10 million people are affected drought in China; 2. According to IUCN, the number of threatened animal and plant species has risen to 16.119 Canada orders a public enquiry into the 1985 bombing of an Air India plane: 3. Kaavya Viswanathan's twobook deal cancelled by publisher Little, Brown& Co., after allegations of literary borrowing proliferated •An Armenian passenger jet crashes into the Black Sea off Russia killing all 113 on board •Van Gogh's "L' Arlesienne, Madame Ginoux" portrait of a French cafe owner sells for \$40 m.; 4. Maoists in Nepal say they are ready to hold peace talks with Government Arcelor says it would consider Mittal Steel's takeover bid if the order is large enough and made in cash •Fiji's military commander Vorege Bainimarama advises troops not to vote for the ruling United Fiji Party; 5. Australian swimming star Giaan Rooney, 23, retires to begin a new career as a TV presenter •BRIC countries with \$ 1.3 trillion surpass G7 in forex-gold holdings •Margaret Beckett replaces Jack Straw as British Foreign Secretary •Sudan

cial tensions in Fiji as general

elections approach •Protests

in USA against changes in the

immigration law •Asian bloc

group in France wants to

ncy 1000K

Buautzy:

FLUENCY BUILDING ENCYCLOPEDIE

World's 1st & most time-honoured system of fluency building. • "The classic fluency development solution" - THE HINDU.

• "Globally sought after" - The New Indian Express,

. "Internationally popular" - THE TIMES OF INDIA.

"How to tame English fluency"

· And how to transform yourself... from a h-e-s-i-t-a-n-t speaker... into a fluent debater

"WHY IS it that most of those who even have a master's degree in English find it difficult to express their thoughts, ideas and feelings in fluent spoken English, though they do it without much difficulty in written English?

scholar of international repute and a renowned English language lexicographer goes into this question in depth and comes up with clear answers in Fluentry, a series of twenty definitive books on the subject authored by him. These 20 self-study books, as a set, constitute a dedicated system of fluency building."

"Prof. Key Nair, an eminent

-The New Sunday Express.

Buyers from 53 countries: Walking tall

• Buyers from USA_UX_ Australia, New Zealand, Germany. France, Denmark, Japan. Middle East, SE Asia...

• Buyers include Judges. Ambassadors, LAS (TPS/ IFS/TRS Officers, Scientista,

Advocates, Doctors, Engineers, IT Professionals. Journalists, MEA/MCA/TSE/ Civil Service candidates.

Unifying the world thro' finend

Peter Mark Roget published A Thesaurus of English Words and Phrases." - New Indian Express.

Roget & KevNair

"Many people consider the course

development in the history of the

English language since 1852 when

designed by Nair to be the greatest

Fluency Handbook: FREE (1) For details, ask for a FREE 40page Handbook, How to pick up fluency in English thro'

self-study. Now. We'll rush it to you — FREE of cost. Yes, it's absolutely FREE. No obligation whatever. Just let us have your name & full address:

🕿 • Eyphone. • Or SMS. • Or fax. Or e-mail.
 Or just write to us.

OR: If you'd like to order the selfstudy books at once, visit NOW: www.fuentzy.com.

Adult Faculties Council

ELGECIA, DP Lane, Elamakkara PO, YCC17. -582 025. Yerala.

E-mail: .nfo.myb@fluentzy.com CARA, 2008ANG DAGROES, (CAN 38477-73324-33426-53531.

36, 7025.010 อื่นคนคบ โดยในอด

Government and the largest Darfur rebel group Minni Minnawi's agree to sign a peace plan; 7. Asia Pacific BPO market likely to touch \$14 b. by 2010 •Chinese airlines are expected to double their fleet to over 1500 aircraft by 2010 Political appointments made by Nepal King Gyanendra invalidated •Berlusconi, İtaly's outgoing Prime Minister, alleges persecution by Leftwing adversaries •Sudan may accept UN Darfur force •In case of further pressure, Iran says it might pull out of NPT •In a chopper crash in Basra, five British soldiers are killed FAO forecasts a fall in world cereal production; 8. Gold at 25-year high in global market - \$682 •Analysts forecast 2007 oil prices around \$58 a barrel •Iran President writes to President Bush to end the 26year hiatus between the two: 9. Forbes magazine names Jackie Chan as one of the 10 most generous celebrities Lakshmi Mittal agrees to revise his offer for Arcelor takeover upwards •'Save the Children' report says each year 2 m. babies die within 24 hours of birth in the developing world; 10. Russian President Putin calls for a dramatic building of the country's defence •Georgia Napolitano is the new President of Italy •Russia has 100,000 alcoholics aged 14 or younger Commission to investigate abuses of power during King !

Gyanendra's absolute rule in Nepal •Fighting between militias in Somalia, 122 die; Thousands flee Mogadishu; 12. Gas pipeline explosion resulting from villagers collecting fuel from the ruptured conduit kill over 200 in Nigeria •Britain replaces US as the publisher of most new books in English •Ethiopian capital Addis Ababa is rocked by explosion; 13. Russia to make rouble fully convetiable by mid-year •Zimbabwe's annual inflation rate soars to above 1000 p.c. •Russian to halt all defence cooperation •Indonesia's Merapi volcano erupts; 14. Taliban's claim that Indian engineer Suryanarayana was killed at the instance of the ISI refuted by Pakistan •10 die in Lanka violence . Tony Blair plans to step down next summer, 15. WHO is alarmed by the statistics that over 3,300 people in the Western Pacific region die daily of road traffic accidents, suicides and drowning •Venezuelan President Chavez in London: 16. Earthquake of 7.5 over 700 km. north-east of New Zealand under Pacific Ocean •Mark Inglis of New Zealand, a double amputee, conquers the Everest •US to restore full relations with Libya •Jacob Zuma reinstated as deputy president of South Africa's ruling party ANC; 17. Romano Prodi sworn in Italian Prime Minister •No-trust motion

Villepin defeated •China and Arab leaders discuss new partnership projects •Gunman storms Turkey's apex court in kills a a judge Ankara and ·Paul McCartney and wife Heather Mills to part ways •Gang violence toll in Brazil since May12 reaches 133; 18. 59th Cannes Film Festival opens «Nepal's Parliament decides to drastically control the King's political and military powers by stripping him of the title of supreme commander-in-chief of the army, asking him to pay taxes and barring him from convening it: Nepal to be a secular state Mittal launches its takeover offer for Arcelor •Bill Clinton to write a book on citizen activism and service for publisher A.A. Knopf •Prime Minister Prodi wants Italy's troops out of Irag • Taliban raid in Afghanistan kills 53 •Fiji Prime Minister Laisenia Oarase sworn in, second time . Pakistan bans Bollywood actor Feroze Khan's entry into Pakistan; 19. UN tells US to close secret prisons •Fiji's opposition Labour Party accepts PM's offer of seven cabinet posts *EU parliament asks members to freeze the accounts of LTTE •28 Vietnamese fishermen die in storm •A film on the Beslan crisis of 2004 to be made by merger; 20. A typhoon that raked the South China Sea kills 104 people •Iraq has a new govagainst French Prime Minister emment, with Prime Minister Murial-Maliki •EU calls upon world powers to help Iran's nuclear and other industries if Teheran stops enriching uranium: 21. Euronext and NYSE plan a \$20 bn merger; 22. 'Col.' Ramanan, senior commander of LTTE, killed • Da Vinci Code reports success at box office •60 Taliban fighters killed in US-led coalition's air strike in Kandahar •WHO Director General Dr. Lee Iongwook dies after a surgery • Montenegro votes for independence in a referendum: 23. 17 killed in attacks in Iraq Moroccan athletics legend Iticham el Guerrouj announces retirement • Consumption taxes in India and China are the highest among Asia-Pacific countries; 24. Economists say that oil may top \$100 a barrel if a new shortfall were to hit the tight crude supplies •Fiji opposition joins cabinet •100 feared dead in floods in Thailand •Fire at Istanbul airport; 25. Former Enron chief executives Kenneth Lay and Jeffrey Skilling found guilty on charges of fraud and conspiracy in the 2001 collapse of the company •Malaysia to issue multiple-entry visas for Indian and Chinese tourists •Clashes between radical Islamic forces and a US-backed warload alliance kill 38 people in Mogadishu •3000 people flee their homes in southern Alghanistan following heavy fighting between Taliban and

security forces Five Kuwait women become the first females register as candidates for parliamentary elections: 26. Michael lackson goes to Tokvo to re-MTV ceive Video's Leaend Award •H1-B visas doubled from the present 65,000 • Government Maoists talks begin in Nepal: 27. Earthquake measuring 6.2 rocks Yoqvakarta in lava, killing about 3000, as per first reports •NAM institute for the Empowerment Women being set up in Malaysia to be operational by Sept. •Russia's stee-Imaker OAO Severstal merges with Arcelor; Mittal to press ahead

ATIONAL

COUNCIL

FOR

MANAGEMENT

STUDIES 55, Lazarus Church Road, R.A. Puram, Chennai - 28. Mobile: (0) 9840130459

(24 Hours Helpline) Fax: 044-24933259 e-mail: aicomas@rediffmail.com

Offers Six months/One year Diploma and 18 months PG Diploma Courses by Correspondence. (Distance Education)

- * BUSINESS MANAGEMENT
- * MARKETING MANAGEMENT
- * MATERIALS MANAGEMENT
- * EXPORT & IMPORT MGMT.
- ★ HOTEL MANAGEMENT
- * BANKING & INSURANCE MGMT.
- * TRAVEL & TOURISM MGMT.
- * MECHANICAL ENGINEERING
- * ELECTRICAL ENGINEERING
- * ELECTRONICS & COMM. ENG.
- * TEACHER TRAINING EDUCATION
- * HOSPITAL ADMINISTRATION
- * INDUSTRIAL SAFETY
- * INTERNATIONAL AIRLINES MGMT.
- * NURSING MANAGEMENT
- * TOTAL QUALITY MGMT. & ISO 9000
- ★ CIVIL ENGINEERING
- ★ CHEMICAL ENGINEERING
- * AERONAUTICAL ENGINEERING

Also offers Diploma in & Business administration & Catering Momt. & Sales & Marketing & Financial Management & Human Resources Dypt. & Production Mgmt. & Advt. & Public Relations & Environmental Mgmt. System & Iso 14000/14001 & Health & Hospital Mgmt. & Ind. Relations & Personnel Mgmt. & Labour Laws & Networking & Internet Application & Software Capability Maturity Model. & Logistics and Supply Chain Mgmt. & Fire & Safety

Eligibility: 10th Std/Matric and above. Course Fee: Rs.1,850/- (6 months diploma). Rs. 3,200/- (1 Year Diploma) Examination will be held all over India.

For Application and Prospectus seed its. 16- Postage stamp to the above address. Application and Prospectus are also available on our Website. THW.IIHAT.COM (or) tries account.000 with his Arcelor bid . Kuwait plans to introduce income tax flat rate of 10 p.c. on i everybody generating income proposed •VW is recalling 362,000 cars because of a brake light switch problem ·Michelin head Edward ing accident •Hundreds of Somalis flee Mogadishu, after a day of fierce battles •Clashes in East Timor nearing a civil war situation *Aung San Suu Kyi's detention extended; 28. Java earthquake toll is around 5000; international aid pours •Nepal government finalises a 25-point code of conduct with the rebels to take forward their dialogue process *Palestinian President Abbas ralls for a referendum on a unity plan to end the power struggle between his Fatah group and the Hamas . government •The \$4 b Baku-Tbilisi-Ceyhan oil pipeline to come as stream in a week *Papua-New Guinea and Tonga rocked by earthquake, 29. At Cannes, 'Palme d' Or' prize goes to British director Ken Louch for his film The Wind That Shakes the Barley .China to ban smoking at public transport •33 killed in blasts in Iraq •President Alvaro Uribe of Colombia wins second term .Pope visits Auschwitz •Rioters in Kabul torch cars and buildings, 30. Daewoo Group founder Kim Woo-Choong sentenced to 10 years in prison for fraud

and embezzlement • Vodaphone reports the biggest annual net loss in British corporate history owing to writedown of assets bought at the height of the telecom bubble •Pop diva Mariah Carey insures her legs for a billion dol-Michelin, 43, dies in a boat-; lars •Singapore evolves a strateay to record 117 m. visitor arrivals and achieve 30 b. Singapore dollars in tourism by 2015 *Russian rouble to be fully convertible from July 1 •lava earthquake toll is 5,700 British House of Lord's ruling says homemaker and breadwinner are equal partners and so entitled to equal share in family's assets at divorce *US calls more troops for Iraq; 31. Deterioration in the security situation resulting from rivalry between. Shia factions in Basra, trag's second largest city; Oil exports face a threat, as smuggling causes decline in revenues *USA is ready to join talks with Iran.

June

Mittal-Arcelor Merger

1 Japan's birth rate drops to a record low of 1.25 babies per woman in 2005 •Iran welcomes talks with USA but rejects the condition that Teheran suspend nuclear enrichment • Java earthquake toll is 6200, 2. Maoists stage public rally in Kathmandu •NYSE to buy Euronext for \$9,96 b, in cash and stock Nissan Motor Co. and Suzuki Motor

Corp. sign agreement to ex pand their business collabora tion, which is a shot in the arn for Marutii Udyog •lohi Lipsky is IMF's First Deput MD •Katharine Close, 13, o New Jersey wins Nationa Spelling Bee spelling the work "Ursprache" - the first femal winner: 3. Pak court issues at rest warrants against Benazi and her husband Zardari •U government reaches the ca on the much in demand H1 B visas for 2007 • Thousand in Taiwan demand Presider Chen's resignation followin an insider trading scandal in volving his son-in-law; 4. Ira hints that if USA makes 'wrong move', oil supply ma be disrupted . Gunman kil 21 persons including 12 stu dents in sectarian attack *Indonesia's 37th death from bird flu confirmed: 5. In Peri Alan Garcia wins another ten in election •World Newspape Congress opens in Moscow Shanghai Cooperation Orga nization (SCO) is not an 'or ental' NATO, says SCO S-Zhang Deguang • Presider Bush declares his support for a ban on gay marriage; (Demolition of the last coffe dam upstream of the Thre Gorges Dam is complete Hundreds protest Mogadishu against an Islam militia takeover of the cit after weeks of bloody fighting with US-backed secular wa lords; 7. 594 prisoners re leased in Iraq •UAE may d



Be successful! DCSMAT PCDM Program. Driven by real-life knowing.

To pursue global careers, the business education you get should be truly global-class. In letter and spirit. Which is why DCSMAT PGDM program comes deeply rooted in the concept of reality learning. The curriculum and case-study pedagogy are industry-specific. Thus giving each student the winning edge to deal successfully with everyday challenges. So that they can be inspiring leaders and masters of their own destiny. Come. Get ready to change your destiny. Enroll at DCSMAT School of Media and Business.



AICTE Approved

Career-focused PGDM program \ Professional faculty \ Cutting-edge curriculum, with a bent on case study pedagogy \ State-of-the-craft, well-stocked library \ Modern, wi-fi campus \ 100% placement assurance

Kmfra Film And Video Park, Thiruvananthapuram 695 585, Corporate Office: D C Kizhakemuri Edam, Good Shepherd Street, Kottayam 686 001, Kerala, India. Ph. +91 481 2563114, 2301614, Mob 094462 13070. E-mail: dcsmat@dcbooks.com

cide to give a six-year residence visa for unskilled foreign workers; 8. Al Qaeda's chief in Iraq Abu Musab-al-Zargawi killed in an airstrike • J.K. Rowling voted the greatest living British writer in a survey, followed by Terry Pratchett, Ian Mcewan, Salman Rushdle, Kazuo Ishiguro and Philip Pullman •China bans Da Vinci Code • entrepreneur lapanese Dalsuke Enomoto to be world's fourth space tourist. who would fly to ISS in September • Colombia-LTTE talks at Oslo remain a non-starter as LTTE, 'refuses' to meet the government delegation; 9. The 2006 World Cup opens in Munich. Germany beats Costa Rica 4-2 . The fist vaccine, Gardasil, to prevent cervical cancer wins US FDA approval . Tony Blair says he is not aiming for UN Secretary General's job . Norway blames LTTE for failure of peace talks Survey says most Russians want Putin to serve a third term; 11. Nepal Parliament strips the King of his right to veto laws . Opposition's 'Dhaka siege' demanding electoral reforms leads to police action • Fernando Alonso Wins British Grand Prix Three detenus in Guantanamo Bay Navy Base commit suicide . Sierra Leone resents US-British plan to move Charles Taylor's war crimes trial from Fectown to

are on a collision course, as Israeli peace activits demonstrate against the Israeli killing of seven Palestinians picnicking on a Gaza beach; 12. Israel steps up threats against Palestinian Prime Minister • Pressure mounts on US to close Guantanamo Bay prison . Arcelor rejects Mittal's new offer; 13. Lord Browne, CEO of BP, says crude oil price may fall to \$40 a barrel • General strike in Bangladesh to press for electoral reforms, violence reported • President Bush makes a surprise visit to Iraq • Al-Qaeda names Abu Hamza Al Mujahir as Zargawi's successor in Iraq . The only Indian temple in Lahore demolished to pave the way for a multi-storeyed commercial building: 14. Security measures in Baghdad strengthened with tens of thousands of extra-personnel deployed throughout Baghdad . Fresh evacuations from village near volcano Mount Merapi: 15. India's Shashi Tharoor nominated for the post of S-G. UN · Blast in a bus kills 64 civilians in Sri Lanka • Series of explosions rock the southern provinces of Thailand • Govemment and Maoists agree on Kolrala - Prachanda meet Major anti-Taliban operation in Alghanistan • Maoist rebel chief Prachanda tells Nepal King to abdicate or face ex-

ecution • Britain offers to jail

former Liberian President Tay-

for if he is convicted of war

of world's 100 most powerful stars •Chinese President says China is committed to forging a long-term strategic cooperative partnership with India •40 militants killed in anti-Taliban action in Afghanistan •G.P. Koirala government and Maists agree to share power in an interim Nepal government; 17. Pakistan to field a candidate for UNSG; 18, Japan warns North Korea of a 'harsh response' from Tokyo and Washington if it fired a long-range missile •Iran says direct talks with US over frag are impossible; 19. Aung San Suu Kyi, who is under house arrest, turns 61; 20. Merrill Lynch World Wealth Report says the number of millionaires around the world rose to 8.7 m. over the past year . Most courteous city in Reader's Digest survey is New York, and the rudest is Mumbai •Nicole Kidman to marry country singer Keith Urban *Conservatives are unhappy over the selection of a woman Archbishop for US Episcopal Church •lapan to withdraw all soldiers from Iraq •China wants an Asian as UNSG: 21. Saddam Hussein's lawyer Khamis Al Obeidi killed •150 die in Indonesian floods Bush is for closing Guantanamo prison; 22. The pair of

crimes over S. Leone's civil

war: 16. Bill Gates announces

his intention to leave his full-

time role at Microsoft *Tom

Cruise is No.1 on Forbes list

the Hague . Israel and Hamas



B.Sc. Fn

SHREE DEVI EDUCATION TRUST

Maina Towers, Ballalbagh, Mangalore - 575 003 Ph; 0824-2456501, 2456511, 2457937. Fax: 0824-2451108

Mobile: 098440-45622 E-mail: info@sdc.ac.in Website: www.sdc.ac.in

SHREE DEVI COLLEGE OFFERS

Duration: 4 years. Recognised by A.I.C.T.E. B.E./B.TECH.

Eligibility: Pass in 10+2/PUC examination with 45% aggregate initiae minitia marks in Physics, Chemistry & Mathematics.

• Information Technology • Computer Science • Electronics & Communication • Mechanical

Affiliated to Visvesvaraya Technological University, Belgaum

Duration: 2 years. Recognised by I.A.P. M.P.T.

Eligibility: Minimum of 50% marks in B.P.T. Physiolineary

Duration: 4 years. Recognised by I.A.P. B.P.T. Eligibility: Pass in 10+2/PUC examination with 45% aggregate marks in Physics, Chemistry & Biology. - Verseilloruft

Duration: 4 years. Recognised by A.I.C.T.E. **B.Pharm** Eligibility: Pass in 10+2/PUC examination with 50% aggregate marks in Rigingley

Physics, Chemistry & Biology or Physics, Chemistry & Mathematics. Duration: 4 years. Recognised by I.N.C. Eligibility: Pass in 10+2/PUC examination with 45% aggregate B.Sc. Tursing MIRIN marks in Physics, Chemistry & Biology.

Duration: 3½ years. Recognised by I.N.C. Eligibility: Pass in 10+2/PUC examination with 45% aggregate marks in Arts, Commerce or Science discipline. G.N.M. Ministra

Above courses are affiliated to Rajiv Gandhi University of Health Sciences, Bangalore

Duration: 3 years. B.H.S. Eligibility: Pass in 10+2/PUC examination in Arts. Commerce or Hoelina in the control of the contro Science discipline.

Duration: 3 years. B.Sc. IDED Eligibility: Pass in 10+2/PUC examination in Arts, Commerce or THE TOTAL STATE OF THE STATE OF Science discipline. **Duration:** 3 years. B.C.A. Eligibility: Pass in 10+2/PUC examination in Arts, Commerce or

Principle Tophenting Science discipline. Duration: 3 years. Eligibility: Pass in 10+2/PUC examination in Arts, Commerce or Science discipline.

THE SUMMERS B.B.M. Duration: 3 years. Eligibility: Pass in 10+2/PUC examination in Arts, Commerce or विद्यास्त्राचार्यः स्टब्साया Science discipline.

Duration: 2 years. M.S.W. Eligibility: Any Degree with 45% marks in optionals/major. BUILDING .

> Above courses are affiliated to Mangalore University SEPARATE HOSTEL FACILITIES FOR BOYS & GIRLS

For prospectus and application form, send D.D. for Rs. 200/- in favour of Shree Devi Education Trust, Mangalore (Mention the course).

36 EVENTS noons orbiting Pluto are named Nix and Hydra •The dismissal of 600 'rebel soldiers from the 1400-strong military by East Timor Prime Minister Alkatiri in March now develops into a rift with President Gusmao •Red Cross and Red Crescent movements extend membership to Israeli and Palestinian relief organisations. Red crystal emblem adopted for Israel's MDA; 23. Chinese military personnel witness a war game soley conducted by US Army, for the first time •22 die in bombinas in Iraq •Seven arrested over an alleged plot to blow up the Sears Tower in Chicago Agreement signed in Somalia between government and a faction that controls Mogadishu •World's oldest tortoise Harriet dies at 176

150 suspected Taliban fight-

launching the major opera-

form a steel entity comprising world's two largest steel companies •World's second richest man Warren Buffett to donate 85 p.c. of his \$44 b. fortune (at \$ 1.5 b. a year) to Bill and Melinda Gates Foundation • East Timor Prime Minister Alkatiri guits; 27. Ronaldo scores his record 15th World Cup goal •Blasts in markets in two Iraqi cities kill 40 •Nguyen Tan Dung is elected Vietnam Prime Minister •China bans use of tiger parts in traditional medicine •111 rebels killed by government forces in Ethiopia •Israel masses force near Gaza• years in Australia: 24. Nearly Ousted Prime Minister Alkatiri's supporters torch buildings in ers have been killed since East Timor; 28. France displaces US as the world's top tion in southern Afghanistan investor abroad in 2005, says •WHO finds that the first con-OECD •Pakistan may field firmed case of human-to-hu-Maleeha Lodhi for UNSG's man transmission of bird flu post •Michael Jackson is movissue was that of an Indoneing to Europe to resume his sian who died after catching music career •lackie Chan to the virus from his 10-year-old give half his fortune to charity son • Vietnam Prime Minister •Montenearo becomes the Phan Van Khai to resign 192nd member of United Na-•Prachanda of Nepal protions; 29. The micro car poses merger of Maoist army 'Smart' made in France, has with Nepal army •A memotwo seats and gives 17 km per rial for the Kanishka victims to litre, is displayed in Detroit •Sri be built in Toronto; 25. Israeli Lanka to make knowledge of soldier Gilad Shalit captured Sinhala and Tamil compulsory by Palestinian militants •Mittal ‡ for recruits to public service at

makes a fresh offer of 40.37

euro per Arcelor share; 26. J.K.

Rowling reveals that Harry

Potter might be killed off in

the seventh book in the series

•Mittal steel and Arcelor to

tion in Kuwait, women vote for the first time •GM to launch a mini car in India next year •Floods in north-east US kill 11 Arrest of several senior Hamas leaders; Israeli jets fly over President Assad's summer palace • Russian steelmaker Sever-stal's may drop Arcelor bid for \$176 m; 30. The merger of Mittal Steel with Arcelor is now certain, as majority of Arcelor shareholders decide to say 'no' to Severstal offer •Pakistan not to accord MFN status to India as well as tariff concessions due under SAFTA which becomes operational on July 1 • Dutch Prime Minister J.P. Balkenende resigns •Israel attacks Gaza with 30 air raids •Russia says Ukraine sold banned longrange missiles to China and Iran.

all levels •Parliamentary elec-

July

World's Highest Railway

1. Qinghai-Tibet railway,

the world's highest and longest highland railway, becomes operational •England crashes out of the World Cup; Argentina loses to Germany •The first-ever Beijing Lhasa Express leaves Beljing at 9.30 p.m. to reach Lhasa at 9 p.m. on July 3 •WTO talks fail •Brazil develops a new biofuel through a vegetable oil blend •66 killed in a car bomb blast in Iraq •ULFA says it is ready for direct talks with the centre •A High quality

EDUCATION

in the Noble Profession of

NURSING



Appointing Richard Regules Contained by

Courses Offered

B.Sc Nursing GNM

NUA SHARANA AMBIGARA CHOMDAIAH MAHA VIDYA PEETHA (R)

AURIGANA CHOWDAVAH (2014 EGE 0):
NURSING SHARADDHA SCHOOL OF NURSING
Recisered under the Managara Societies Reciseration Act 1950)

18/2, Choktanahaffi, Jekkur Post Yelahanka (Hobii), Bangalore North - 64 Yel : 080 22711708, +91 9448230457. +91 9880198626

Proposed Building for School & College of Nursing

Greenish compus, Latest teaching and presentation equipments
Well equipped lebs, Shadents friendly compus, Highly Hygienic Conteen,
Separate Hastels for Born & Girls. 250 Bedded, awa Multi Seedalish Hospital



AKKAMAHADEVI COLLEGE OF NURSING

Chidri, Bidar, Kamataka

SHRADDHA SCHOOL OF NURSING

Gomahalli, Bidar, Kamataka

APPOVEDINING, KNE ERGUIS, GOVI, DIKEMERE

Courses Offered

B.Sc Nursing & GNM

Facilities

Excellent Coaching by qualified and competent Teachers | Extensive Library Separate Hostel for boy and girls | Hygienic Kerala Food

Call: 08482 309282, 309283. Fax: 08482 236319. Mob: 94481 (1977)



15c Rt 056 4 7184Pa

traight-set defeat to Rafael Vadal marks the end of Andre Igassi's career • African Union summit in Banjul, Gambia lose Ramosttota, Nobel Peace Prize Winner, being considered for Prime Minister of East Timor; 2. Gold may top \$700 an ounce again this year, says GFMS •Office of Palestinian Prime Minister Haniyeh blasted •Saddam Hussain's wife and daughter, both living in exile, are on a new list of most wanted figures in Baghdad •Earthquake of 5.3 magnitude hits eastem Indonesia; 3. Seven killed Sri Lankan violence •Prachanda calls his cadres to suspend the actions of the 'people's court' in Nepal • Rival candidates claim victory in Mexican presidential election; 4. Finland broadcasts news in Latin •Pakistan to get 36 F-16s 3 from US •First World Summit of Religious Leaders in Moscow is attended by 200 representatives from 40 countries Number of internally displaced people due to conflict in Sri Lanka rises to 3 Jakhs: EU announces Euros 7 m. in aid: 5. North Korea testfires a series of missiles including the international Taepodong -2: UN holds emergency meet on North Korean missiles •'Discovery' launched *Prince Tui Pele Haka of Tonga and his wife die in car crash near San Francisco; 6. PM Bucko-vski concedes defeat to Opposition in Macedonian parlia-

mentary elections •13 Palestinian civilians killed as Israel invades Gaza •Spaceshuttle 'Discovery' closes -in on ISS; 7. Crude oil price tops \$75 a barrel •Lukas Podolški named World Cup's crown prince •Percy Sonn is new ICC President •Toll in explosives blast in China is 47 •Rift between Sri Lankan President and opposition UNP widens; 8. Amelie Mauresmo is the first French woman in 81 years to win the Wimbledon singles title. She beats Belgium's Justine Henin-Hardenne; 9. Russian passenger jet bursts into flames while launching at Irkutsk, Siberia, killing more than 122 people • Major General Nanda Mallawarachchi is Sri Lanka's acting Army chief; 10. Italy beats France 5-3 to win World Cup football Roger Federer is Wimbledon men's champion - the fourth successive win •Ramos Horta sworn in East Timor prime minister •24 killed in Iraq attacks . China, Pakistan to renovate Karakoram Highway •Pak plane crashes into the field in Multan killing 45 • Colombian driver Montrya to leave Formula One •27 killed in fighting in Somalia • Chechen rebel leader Shamil Basayev reportedly killed. Basayev is the most wanted man in Russia responsible for Beslan school hostage massacre •A report says violent racism is on the rise in Russia; 11.

officials •Marco Materazzi of Italy, admits he insulted Zinedine Zidane before Zidane head-butted him in the World Cup final *Sunnis end their boycott of Iraq's parliament •Train accident kills 33 in northern Bangladesh: 12. China's Liu Xiang gets a new world record in 110 m. hurdle at 12.88 sec. • Segolene Royal and Nicolas Sarkozy reported to be worldbe presidential candidates in France •ADB disburses over \$11 m. for fighting bird flu •Israel launches raids on Lebanon •Muslim Conference wins half the seats in PoK Assembly election •Ashwell Prince becomes the first nonwhite player to lead 5. Africa in tests; 13. Toyota recalls 367,500 US Highlander and Lexus RX spark utility vehicle to fix faulty clips that may cause a console panel to fall on to the accelerator: 14. Banks of Japan hikes increst rates-key rate is now 0.25 p.c. against zero •16 killed in renewed violence in Sri Lanka •Oil prices cross \$78 a barrel Pakistan says Indian Prime Minister's comment that Mumbai bombers had received help from 'across the border' was baseless: 15. israeli warplanes pound Hezbollah's South Beirut stronghold •Gunmen kidnap Iraq's Olympic chief •Russia and US to expand nuclear ties Tobacco will kill 1 b. people | with India; 16. Gabriela

this century, say public health



Intensive Cozehing for

Central Govt. & State Govt. Jobs

Civil Services Exam

UGC-CSIR-NET Examination

MBA/MCA/LLB Entrance Exams

Bank P.O.

SSC. UPSC. RRB. PSC

Examinations

Medical/Engineering
Entrance Exams

Competitive Exams

Based on B.Tech, M.Tech, ITI, Diploma

Basic and High End Computer Courses

Brilliance College Career Monthly for Civil Services Exam

Direct Classes and Correspondence Courses

Branches in Kerala: Kollam № 2761948 Kottayam № 2302724 Pathanametitia 0468-2329267 Alappuzha & 2238318 Thodupuzha & 2226AT Errakulari &

2351633 Thrissur & 2423732 Palakkad & 2528533 Mancheri & 275928, Yestiltrote 🗷 2768399 Wayanad 🕿 04936-220606 Kannur 🗷 2707*06A Kacarood 🗷 12EE (S.*

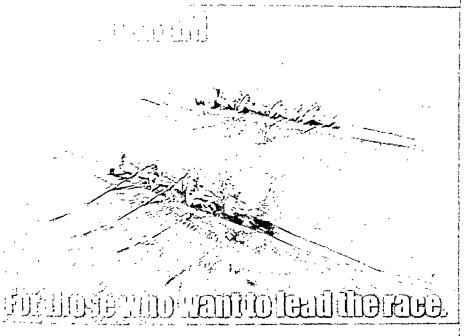
Sabatini, Patrick Rafter and Gianni Clerici in the Hall of Fame on Newport's grass courts •Tropical storm kills 48 in China Pakistan says Benazir and Nawaz Shariff can't contest polls *Putin wants India and China in G-8 · Ferrari's Michael Schumacher makes Formula One history in France as the first driver to win the same Grand Prix eight times; 17. G8 leaders meeting at St. Petersburg express solidarity with India where terrorist action crippled Mumbai on July 11 and express determination to continue fight against terrorism *US space shuttle Discovery is back after 13-day mission, landing in Florida •Prime Minister Manmohan Singh holds talks with President Bush at St. Petersburg - India is convinced that US has no intention to go beyond the scope of the Indo-US nuclear deal •Over 170 killed in floods in South China; 18. lava tsunami death toll mounts to 340; 200 are missing; over 54,000 are displaced •Mittal Steel acquires 50 p.c. of Arcelor shares •China's economy grew by 10.9 p.c. in the first half of 2006 •UK bans Islamist militant group Al-Ghurabaa and the Saved Sect ·Death toil from rainstorms and floods in China rises to 198 •Following fierce fighting between Israel and Lebanese militant group Hizbollah, internally displaced Lebanese 🖟 speed up delivery of precision

seek refuge in mountain villages, and foreigners await evacuation •Blast kills 53 in Iraq •A Pakistan court issues arrest warrants for Benazir Bhutto and her husband for allegedly submitting false asset statements to the election commission; 19. Britain to allow gambling ads on TV ·Evacuation of foreigners in progress in Beirut •Serena Williams, back after a six month lay-off, scores a victory •6,2 magnitude quake strikes Indonesia, coasts of west Java and South Sumatra alerted Israeli bomb blitz kills 54 in Lebanon •Nepal to hold constituent assembly election by mid-April; 20. French foot baller Zinedine banned for three matches for head-butting Italy's Marco Materazzi, who gets a two-match ban •Bill Gates to give \$287m. to help 165 scientists in 19 countries who work on an AIDS vaccine •Third day of fighting between Israeli troops and Hizbollah fighters of Lebanon •42 die of bird flu in Indonesia; 21. Israel mobilises reservists to reinforce units fighting Hezbollah gunmen in Lebanon •Crude oil is above \$74 •30 persons in Europe die in heat wave •Khmer Rouge leader Ta Mok dies • Hizbollah chief rules out unilateral re-

-quided bombs to Israel •A private firm in Virginia offers a trip to space for \$ 35m. •A new James Bond novel to be published in May 08, to mark the centenary of Ian Fleming's birth •Ethiopian military personnel land at a Somali airbase lease of kidnapped soldiers China's death toll from tropical storm Bilis more than doubles to 482; 22. US to

•Earthquake in China's Yunnan province kills 8; 23. Saddam Hussein hospitalised after 16 days of hunger strike American Floyd Landis is Tour de France champion •UN says the devastation by Israel air strikes in Lebanon is horrific • Earthquake (6.1) hits Indonesia's Sulanesi island •4 killed in Iraqi blasts •Cuba's anc President Castro Venezuela's Hugo Chavez tout the Argentina boyhood home of legendary guerilla Che Guevara: 24. Miss Puerto Rico Zuleyka Rivera Mendoza is named Miss Universe in Los Angeles •India blames the developed countries for the failure of the WTO talks *Aus tralian government issues a rallying cry for its citizens to have more babies •Tige Woods wins British Open Gol Championship •Nepal abol ishes Military Secretariat •Biro flu reported in Thailand •Hea wave kills 10 in California; 25 Washington Post reports that Pakistan is building a power ful new reactor for producing plutonium •Scientists find evi dence of giant hydrocarbor lakes on Saturn moon Titar •India's Shashi Tharoor and South Korea's Ban Ki Moor

POWER PACKED



be career-focused, and must be loaded with enough know how to help you win over challenges. And stay ahead. DCSMAT knows this perfectly well. Which is why it combines power-packed, cutting-edge cumiculum with the best ever faculty and other facilities. The wi-fi campus, at Vagamon, is picture-perfect. Precisely these make studying an exciting experience. Come. Get equipped. To lead the race.

To stay ahead in career, you need to pick an MBA program with absolute care. It should



AICTE Approved

Career-focused MBA Program Ninspiring campus, at Vagamon NProfessional faculty N Cuttingedge curriculum, with a bent on case study pedagogy State-of-the-craft, well-stocked library Neithetically done, wi-fi campus Nature-harmonious ambience N 100% placement assurance

Pull Manam, Vagamon, IduMd Dist. 685-503. Kerala.

Corporate Office: DC Kizhal emuri Edam, Good Shepherd Street, Kottayam 686-001, Kerala.

Fin (91-481) 256-3114, 230-1614. Mobi 094462-13070 E-mail: dcsmat@dcbooks.com

emerge key contenders for

UNSG in the first informal poll held by SC; 26. In California, triple digit temperatures continue for the ninth day •Typhoon Kaemi batters east China's Fujian province, claims nine lives •Mittal Steel acquires 92 p.c. of Arcelor shares •Saddam Hussein says he was brought to court against his will *An Israeli air strike kills four UN observers in South Lebanon •UNSC condemns Israeli attack on a UN observer post in Lebanon which killed four peacekeepers •EAS countries express concern at the collapse of the Doha round of global trade talks' Number of Iragis killed in war-related violence since the new government took over is put at 10.867 •US to send more troops to Iraq Nine Israeli soldiers killed in fighting with Hizbollah; 27. US House of Representatives votes for legislature providing greater access of sensitive nuclear technology to India •27 killed in Baghdad blast •Russia to sell Venezuela weapons worth \$3 b. •Nine

Christian dominated villages •A British scientist's study gives top place to Denmark. as the happiest country in the world, and Burundi the most unhappy, US is at 23, UK 41 and France 62; 29. Muslims in Malaysia banned from using Botox injections for cosmetic purposes •Maoists in Nepal extend ceasefire by three months •Beirut university turns into a refugee camp •Paul McCartney files for divorce from Heather Mills: 30. Srì Lankan troops capture a key reservoir in the north-east and kill 40 Tamil Tigers •20 Taliban fighters killed in Kabul •51 Lebanese killed, many of them children, in Israeli warplane outrage •Fire in Bahrain building kills 16 Indians from Tamil Nadu: 31. Israel suspends air strikes on Lebanon for 48 hours *UNSC orders Iran to halt its nuclear programme by Aug.31 *Australian Prime Minister John Howard to seek a 5th successive term in 2007 election.

border villages rush towards

August

Fidel Castro steps down temporarily

1. Cuban President Fidel Castro steps down temporarily after intenstinal surgery, handing over power to his brother Raul Castro •Nepal cabinet approves a legislature

aimed at ending gender bias

in monarchy •Govt, orders a

dren as domestic helps or as servants at hotels, etc.; effective from Oct. 10 •US says satellite pictures 'show' Pakistan has terrorist training camps in its territory •Israel bombs Lebanon, aiming to create a 30-km buffer zone •24 Sri Lankan soldiers killed by LTTE .Bombings and shooting kill 55 in Irag; 2. Hezbollah rockets pound Israell, and Israel steps up ground strikes by sending commanders •Writers John Irving and Stephen King urge I K Rowling not to kill Harry Potter in the 7th book • President Musharraf says without army, Pakistan will be like Lebanon •War for a water reservoir leads to Sri Lankan offensive killing 68 •10,000 North Koreans believed dead or missing in the country's worst flood in the century; 3. Fighting kills 18 civilians in Muttur, Sri Lanka •132 Hezbollah rockets pound northern Israel, killing five •UN team in Nepal to study its role in resolving conflict •Iranian President calls for elimination of Israel •21 killed in Afghan car bomb attack ·New Israeli air strikes on Beirut take toll to 900 •Typhoon Prapiroon nears southem China, thousands evacuated. 4. 40,000 persons are trapped in the Muttur town in Sri Lanka, humanitarian cri-

sis elsraeli air strikes mount in

Lebanon •25 Taliban men

ban on employment of chil-

killed in a new wave of Israeli

attacks *Prime Minister

Manmohan Singh calls for

immediate halt to violence in

Lebanon •EU Trade Commis-

sion Peter Mandelson blames

the US for the WTO fiasco; 28.

Finland to pull out of the Sri

Lanka Monitoring Mission on

grounds of security •People

fearing Israeli campaign on

illed in Afghanistan •Sania Virza suffers her third successive defeat against Russian World No. 6 Elena Dementieva; 5. Following Pakistan's expulsion of Indian Visa Counsellor Deepak Kaul, India ex-

pels a Pakistan diplomat •In its reaction to UNSC deadline for Iran to suspend all fuel enrichment activities, Iran says it is ready for talks but won't change its policies under pressure; 6. Lebanon rejects the

draft UN resolution calling for an end to the conflict • Egyptian Museum displays the mummy of Pharoah Rames IV •Israel arrests Aziz Dweik, the

Hamas Speaker of Palestinian

Parliament •Afghan troops and police kill 17 Taliban men:

7. Nepal Maoists say peace talks are on the verge of col-

lapse on arms issue •Tiger Woods is the youngest player in PGA history to win 50 titles

•US says anti-Indian terror groups exist in Pakistan; 8. US

lifestyle guru Martha Stewart agrees to pay SEC \$195,000

to settle civil charges of insider-trading •Arab nations urge withdrawal of Israeli forces from Southern Leba-

non; Israel is studying Lebanon's offer to deploy 15,000 Lebanese troops along the border •29 Thai provinces

are hit by bird flu *UK thinking of ethnic quotas for jobs; Iran President says pressure

on his country can make it reconsider its adherence to the

NPT •Nepal govt and Maoist rebels reach agreement on UN monitoring of their

ceasefire and the management of the arms held •Indonesian bird flu toll is 45: 10.

Highest security alert in Britain after police foil a plot to

blow up aircraft in mid-flight between Britain and USA:

Flights cancelled: Heathrow closed; thousands stranded; 11. Blogs reach 50 m. - a 100fold increase in three years

•UK freezes assets of 19 terror suspects •29 killed in fighting between Sri Lankan army and LTTE •Air raids continue

watra to contest Thai election in October: 12 Lebanese ceasefire resolution unani-

in Lebanon •Thaksin Shina-

GROUP OF INSTITUTIONS Stepping in to Glorious 24th Year **EMPOWERING STUDENTS TO MEET SUCCESS**

Proper Admission Guidance for BSc Nursing/(M/F), General Nursing (M/F), MBBS, BDS, BAMS, BHMS, MSc Nursing, BSc&MSc, Bio-Tech, Bio Chem, Bio Infor, Micro Bio, MBA,

MCA, BBA, BCA, BSc & MSc Hotel Management, Fashion Tech., BE/B.Tech (Engineering-All Branches), POLYTECH, PhD, M Phil, B Pharm, D Pharm, and all other academic courses in INDIA and ABROAD

B.Sc (N) G. Nursing (M/F) LL.B, MBA

Salient Features

 Scholar ship for brilliant and financially back ward students. . Bank Loan Facility . Special fees discount for NCC Cadets, Scouts & Guides, President award winners, Sportsmen & Dependents of Ex-Service men

Admission available for thousands of correspondence courses

EDUCATIONAL CULTURAL AND CHARITABLE TRUST (R)

PUTHIYAKAVU Market JN., MAVELIKARA, Kerala-690101

Phone: 0479-2303021 (Off), 2328998 (Res) Mob: 93494 62700. 93871 51767 93404 64

nously adopted by UNSC David Beckham not to be British captain •German novelist Gunter Grass admits serving in the Nazi SS during WWII •128 killed in Sri Lanka fighting; 13. Earthquake (5.5) iolts Indonesia's Aceh •Fidel Castro of Cuba is 80 •Israel agrees to a ceasefire after its fighters fail to overrun Hizbollah in S. Lebanon •LTTE alleges that Rajapakse regime is for a military solution in Sri Lanka •Son of an Indian immigrant in London is among the 24 people arrested for the plot to blow up US aircraft •6day global AIDS conference opens in Toronto; 14. Global Wheat output for 06-07 put at 598 m. tonnes •Oil falls to \$73 a barrel, on West Asia truce •61 schoolchildren and 6 other persons killed in explosions in Colombo; the target was a Pak High Commission convoy *Roger Federer wins his second Rogers Cup in three years, in Toronto Masters •Nepal has a new Army Chief - Lt. Gen., Rukmangat Katuwal •China typhoon Saomai toll is 255: 15. Australia shelves its Immigration Bill • Syria says US and Israel have lost their grip on West Asia •Dell to recall 4.1 m. notebook computer batteries made by Sony because they would overheat and catch fire •|apanese Prime Minister Koizumi's visit to Yasukuni war shrine triggers furore *Oliver Stone's film

'World Trade Centre' makes a debut at US box office over the weekend earning \$18.7 m.; 16. Tri-nation cricket series put off; 17. Floods kill 900 in Ethiopia; Omo river bursts its banks; more dams may burst •17 Lebanese army troops move into the south to help enforce the ceasefire •In renewed battle, 100 Tigers killed . NASA says original tanes of man's first landing on the moon in 1969 have been lost •World steel production in 2006 is 1.2 b. tonnes: 18. Chechen rebel Umarov's brother surrenders Namira Salim, a Pakistani artiste based in France, chosen by US firm Virgin Galactic for its commercial space flight in 2008 - the first Pakistani astronaut •SAF Games begin in Colombo: 19. Israeli commandos launch raid deep inside Lebanon •President Rajapakse says his government is committed to peace and negotiated settlement in Sri Lanka • Marion jones reportedly has failed in a doping test •Asfa Powell equals his own 100 m, world record (9.77 sec.) for the third time; 20. Earthquake (7.2) shakes the South Pole •Sri Lankan army claims that 100 cadres of LTTE have been killed in latest laffna battle ·Lebanon warns militant group against violating the ceasefire; 21. Train crash kills 58 in Egypt •Tiger Woods

clinches his 12th major title

crashes in eastern Ukraine •Marion Iones 'shocked' by report about her positive drug test •Serbian teenager Ana Ivanovic beats Martina Hingis to win the \$1.34 m. Rogers Cup title; 23. The board game Scrabble to use titles in pink to raise money for research into breast cancer •A Mumbai -based US airline flight returns to Amsterdam after alarm •Former Pak all-rounder Wasim Raja dies while playing: in London: 24. International Astronomical Union meeting in Prague decides to relegate Pluto to the status of a 'dwarf planet' •"Pluto is a Planet" Tshirts being sold online •A study says as a result of global warming, spring now arrives 6 to 8 days earlier across Europe than in the early 1970s: 26. Arousheh Ansari, Iranian-born US woman, to become the world's first female space tourist . Heavy water plant, with capacity to produce 16 tonnes a year, opened in Iran •Brazilian Felipe Massa beats Michael Schumacher in Istanbul •Umpire Darrell Hair in the news after his ball-tampering allegations against the Pak team playing in England; 29. Rioting in southern Pakistan over killing of Bugti; 30. World Trade Centre' film to donate \$2.6m. to 9/11 charities •40 killed in Iraq blasts •Pak authorities say the Baloch leader and third PGA crown; 22. Bugti was killed in a cave col-

Russian jet with 170 on board

lapse •Israel rejects a call from Kofi Annan to lift its air and sea blockade of Lebanon; 31. Warren Buffett, 76, marries longtime companion Astrid Menks, 60 •Angry mobs protesting Bugti killing block rail line in Pakistan.

September

Pope Apologizes

1. Lockheed to build next spaceship for NASA •US says military action against Iran is possible •Maoists breach ceasefire code of conduct in Nepal •Shinzo Abe is a candidate for Japan Prime Minister •80 killed as Iranian airliner catches fire at Mashhad Germany's Angela Merkel is world's most powerful woman, according to a Forbes magazine list. Condoleeze Rice is second, Wu Yi third, Indian-born Indra Nooyi fourth and Sonia Gandhi 13th •Slain Baloch leader Bugti buried under government supervision in Pakistan •Rebel astronomers to fight for Pluto's status; 2.80 LTTE cadres killed in a naval battle; 3. Enforcement Directorate serves notice on Natwar Singh and son in the Iraqi oil-for-food scam •Miss Afghanistan Vida Samadzai, expelled from her country three years ago, denied permission to participate in Fashion Week parade in New Delhi •Sree Lanka freezes NGO funds •Opium poppy cultivation in Afghanistan hits record levels; the country produces 90% of world's opium and heroin supply; 4. Sir Lankan army captures Sampur in Trincomalee district •Sudan asks all peacekeepers to leave Europe's SMART-1 spacecraft slams into the moon, ending its three-year mission *Australian crocodile hunter Steve Irwin is killed in a 'freek' stingray attack; 5. Pakistan signs a deal with local Taliban militants in N. Waziristan •60 Taliban militants killed in S. Kandahar, Afghanistan •Iraq to have a new flag in place of 'the Saddamist flag' . Human rights group wants investigation into Israeli use of cluster bombs in the fighting in Lebanon •Serge Girard completes

ACADEMY VIJAVA

A SPECIAL COACHING CENTRE FOR COMPETITIVE AND ENTRANCE EXAMINATIONS 142-FIRST FLOOR, RAJARAJESWARI TOWERS (Branch) & 205-B, LAJPATHRAI STREET, Dr. NANJAPPA ROAD, COIMBATORE-641,0018.

Mobile: 94427 64565; 94430 21434 Ph: 0422 2230102

Vijaya Academy, the 'Exclusive Coaching Centre', for BL and then to B.L(Hons) started in 1992, is now upgraded to guide not only to IAS, IPS and other Civil Services Exams & TNPSC, but also other "COMPETITIVE AND ENTRANCE" examinations.

Our Special attention is now

- 1. I A S Preliminary & Main Examinations.
- 2. BANKS, DEFENCE(CDS), RAILWAY'S(RRB), FOREST(IFS), SSC, INSURANCE EXAMS.
- 3. UGC's-NET, SLET & TRB, B.Ed (Regular, TNOU & IGNOU)
- 4. CAT, MAT, MBA, MCA & TANCET
- 5. B L & B L(Hons)-Tamilnadu & National Law Schools-NLSTU, NLTU, NALSAR, NUUS, NLU, GYLU & SYMBIOSIS 🔮 & NTSE-National Talent Scholarship Exam(from- 9 th STD, IIT's(Prelim & Main), NIT, AIIMS & TNPCEE, etc., besides the 'Special Tuitions' to 10, +1, +2(State Board, CBSE & Improvements & Degree (regular & corresp.) Courses.
 If you have "Aim & Goal" in your life, you should know that "Nolhing is Impossible"

1995 & 1996-B L -"Entrance Examinations"

Note: Guidance Counsel is available to 'Students & Teachers'. vijayzacademy1992@rediffmail.com

Principal Advisor: Guidance Counsel: Professors V.R.AMASAMY, M.Sc., M.Phil, Ph.D., BL., DIRECTOR: N. R. BARATHAMANI, MA, BEA BOLL M.A. Cort. in Plant & Prope Tirch., Cort. in Propert blanked SPECIAL NOTE: Regular & Correspodence coaching classes are available

a 260-day run between Paris and Tokyo (19,097 km) without a full day of rest - a record; 6. Seven junior members of UK's Blair government quit Pakistan withdraws an offer of safe haven to Bin Laden, after US outrage • Maoist controlled unions rally for worker's rights in Nepal •Japan's Princess Kiko gives birth to a baby boy, the first imperial male heir to be born in more than four decades •Iran to cleanse school and universities of liberal and secular influences; 7. A bronze bust of Kalidasa unveiled in Shanghai • Marian Jones cleared of doping charges President Bush confirms existence of a secret CIA prison network •British Prime Minister Tony Blair is to quit within a year elsrael lifts its air and naval blockade on Lebanon: 8. New video released by Al Jazeera shows Osama preparing for 9/11, 2001 strikes; 9. Leander Paes and Czech partners Martin Damm enter US Open Men's Doubles final . Campaign to oust Taiwan's President Chen • Space shuttle Atlantis with 6 astronauts blasts off •Pope visits Germany •UNGA adopts a global strategy to counter terrorism •Former Iranian President M. Khatami says atomic weapons of India, Pakistan and Israel must be eliminated first; 10. Maria Sharapova wins US Open •115 LTTE men killed in Sri Lanka • Martina Navratilova

is retiring; 11. Atlantis docks with ISS . A law student of 19, Lucy Tate, becomes Britain's youngest magistrate •Fifth anniversary of 9/11 •Russia tests missile from under icebound sea . Hamas and Fatah agree on the formation of a national unity government Bangladesh Prime Minister Khaleda Zia suspects sabotage at polls •Fierce battles continue in Jaffna •Roger Federer is US Open Champion - third Grand Slam title of the year and the ninth of his career; 12. Warring parties in Sri Lanka agree to unconditional peace talks •A terror attack on US embassy in Damacus foiled •Over 50 killed in a stampede at a stadium in Yemen: 13. President Musharraf says Indo-Pak relations have never been so good According to UN, US has the largest inflow of migrants, Afghanistan is second. India is fourth on migrant outflow list •First bird flu case reported in Sudan •A blast kills 10 in Turkey •Sri Lanka ready for talks if violence stops; 14. Hollywood superstar Nicole Kidman is Australia's richest woman under 40, with a \$150 m. fortune •Bird flu toll is 49 in Indonesia • The first ordination of rabbis in Germany since WWII held •Iran is optimistic about its talks with EU. but not so with US .Seven killed in Sri Lanka violence •Russia's top banker Andrei Kozlov shot dead •A report

says France is a declared direct target of Al Qaeda: 15. The new Japanese prince is named Hisahito •Iraq to ring Baghdad with trenches to protect the city •Muslims across the world protest against Pope Benedict's reference to Islam in relation to violence during his visit to Bavaria; Vatican says Pope meant no offence; 16. Pope apologises to Muslims for his speech on Islam •Security forces gun down four LeT militants in I&K •US says it can go to Pakistan looking for Osama only if invited by Pakistan; 17. Global Day for Darfur (Sudan) sees protesters around the world calling for an end to the fighting; 18.11 Muslims hacked to death in a jungle in eastern Sri Lanka •World's first woman space tourist blasts off on a Soyuz rocket from Baikonur •Attempt on Somali interim President A.Y. Ahmed's life: 19. Thai military stages a bloodless coup against Prime Minister Shinawatra •Moldova's breakaway province of Trans-Dniester votes to become part of Russia; 20. A new ring is spotted on Saturn, NASA says •Gold price falls to \$572.30 an ounce •Coup leader Gen. Sonthi Boonyaratqlin says civilian rule will be established in Thailand in a fortnight •Hewlett Packard marks 100 millionth printer sale •Shinzo Abe to be next Japanese Prime Minister: 21. Muhammad

ADMISSION 2007

PANDYARAJAH BALLAL COLLEGE OF NURSING

(Affiliated to Rajiv Gandhi University of Health Sciences, Bangalore.)
Ullal, Mangalore-575020, Ph:0824-2466291, Fax:0824-2217427
Website: www.pandyarajahballal.org

3.Sc. NURSING - 4 Years Degree. Approved by INC :ligibility: 10+2/PUC with 45% marks in aggregate in 2.C.B. Selection according to marks.

100% Result in 2000 & 2005

K.PANDYARAJAH BALLAL SCHOOL OF NURSING

iploma in General Nursing & Midwifery - 3Years
pproved by Govt. of Karnataka & Recognised by INC
ligibility: PUC or 10+2 examination from any University/Board

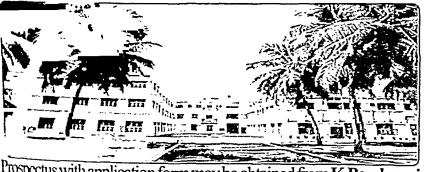
K.PANLYARAWAH BALLAL COLLEGE OF PHYSIOTHERAPY

B.P.T. - 4 Years Degree (Recognised by I.A.P.)

Eligibility: 10+2/PUC with 45% marks in aggregate in P.C.B.

M.P.T. - 2 Years P.G. Degree (Recognised by I.A.P.)

Eligibility: Pass in B.P.T. / B.Sc.PT with 50% marks



Prospectus with application form may be obtained from K.Pandyarajah Ballal Charitable Trust, Vijaya Clinic, Kadri Kambala Road, Mangalore-575 004, Karnataka, S. India on payment of Rs.300/byBank DD in favour of K.Pandyarajah Ballal Charitable Trust, Payable at Mangalore. (Phone: 0824-2217877, 2217978, 4270796)

Ali's daughter Laila Ali to 🖠 make her debut at Madison Garden Souare November • China's telephone users now exceed 804 m., of which 437 are mobile phone subscribers • California sues six world automakers warming global over Musharraf says Pakistan has 'certain apprehensions' over New Delhi sharing information on Baluchistan •Atlantis, the US space shuttle, lands in Florida safely •Thailand's coup leaders ban political activities •100 people may have died in Bangladesh storm •Deposed Thai Prime Minister Thaksin asks for early elections; 22. Bush wants Kashmir issue resolved bilaterally •A trans rapid high speed train crashes into a service vehicle in Germany China's population of the elderly to became 174 m. by 2010; 23. A French secret service report says Osama bin Laden has died of typhoid; 24. Asian stocks fall for the third week .Saudi Arabia has no evidence that bin Laden has died •Martina Hingis wins Sunfeast Open, in Kolkata •20 killed in violence in Iraq; 25. Crude fortunes in New York fall below \$60 a barrel, on reports that Iran favoured talks on its nuclear programme •Sri Lankan navy claims to have sunk 11 LTTE boats, killing 70 separatists Afghan President says Osama may be hiding in Pa-

kistan •Saddam Hussein sent out of court •Chopper missing in Nepal for three days found, all 24 on board dead ·Pope wants inter-faith dialoque for peace; 26. Taliban source says bin Laden is alive and well; 27. US falls to 6th place in World Economic Forum's 2006 global competitive rankings •Guatemalan security forces take over a prison, controlled for more than 10 years by inmates who produced drugs and lived in spacious homes; 28. Gold trades above \$600 an ounce •Dow Jones index rises to 11,724.86, surpassing a record close of 11,722.98 on 11/1/2000 •Inzamam-ul-Hug cleared of ball tampering charges, but there is a four-match ODI ban for leading a protest against the umpires •Pakistan says Osama could be in Afghanistan China conducts fusion reactor test successfully •28 killed in Irag blasts •Typhoon Xangsane wreaks havoc in Philippines: 29. South Korea's candidate Ban Ki-moon leads straw poll for UN SG's post Anousheh Ansari, the space tourist, returns; 30. Brazilian plane Boeing 737 with 155 crashes after colliding with a smaller aircraft, over Amazon jungle •French socialist Segolene Royal enters race to be President •Talks by visiting President Musharraf and Tony Blair in London on Indo-Pak ties and terrorism.

October

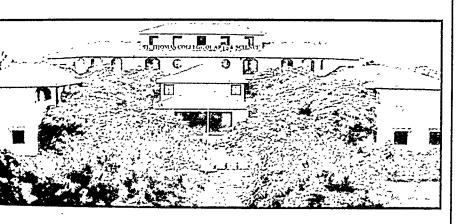
Nobel to Younus of Bangladesh

1. Michael Schumacher wins Chinese GP to tie with Alonso in F1 championship •Tatana Kucharova, 18, of Czech Republic is Miss World; 2. Suraynd Chulanont is the new Thai Prime Minister Sporadic gun battles in Palestinian areas •Russia imposes a total economic blockade on Georgia • Shootout in a Pennsylvania school kills five children; 3. LTTE agrees to hold unconditional talks with Sri Lankan Government • A Turkish plane with 107 passengers from Tirana is hijacked to Italy's Brindisi airport •US population reaches 300 m North Korea to conduct a nuclear weapon test •Fighting erupts in Darfur, Sudan, killing 40. Aid workers flee Greida; 4. Nicaragua plans a \$20 b. rival to Panama Canal •58th Frankfurt Book Fair opens with 7272 exhibitors from over 100 countries; 5. Colombo - LTTE talks to be held on Oct. 28 and 29 in Switzerland .NATO assumes control of international forces across Afghanistan •Thai martial law to continue •Fredrik Reinfeldt is approved as Sweden's new Prime Minister: 6. Main Sri Lankan parties agree to reach consensus on ethnic issue •Russia deports 150 Georgians; 9. North Korea says it has successfully con-



T. THOMAS COLLEGE OF ARTS AND SCIENCE

(Owned & managed by St. Thomas Orthodox Cathedral, Chennai) proved by the Govt. Of Tamilnadu & Affiliated to the University of Madras



COURSES OFFERED

BBA, B.Com., BCA,

B.Sc. Computer Science,

B.Sc. Visual Communication,

B.Sc. Electronic Media,

B.Sc. Mathematics, B.Sc. Psychology.

M.Sc. Computer Science

M.Com.

M.Sc. Electronic Media

M.Sc. Visual Communication

SPECIALIZATIONS

* Advertising

* Videography

* Editing

* Multimedia

* Direction

* Documentary Film

* Photography

* Graphic Design

* Short Film

Choice of Languages : Tamil, Hindi, Malayalam & French

#140/6, A.K.R. Road, St. Thomas Nagar, New Colony, (Near Koyambedu Junction), Koyembedu, Chennai - 600 107.

For more details contact: 2479 8489, 6539 7770

Visitus @ www.stiliomascolleye.org

email:stcas@sify.com

ucted an underwater nuclear st 'under secure conditions'. ush calls it a threat •UNSC ecommends South Korea's ian Ki Moon to General Asembly as S-G; 11. Kiran Desai wins the Booker Prize •Intense lighting results in the death of 22 Sri Lankan soldiers •North Korea warns of more nuclear tests if US keeps pressuring it; South Korea asks UN to send a 'clear and firm' message to North Korea; 12. Turkey's

Orhan Pamuk wins Nobel for Literature; 13. Nobel Prize for Peace won by Bangladesh's Grameen Bank and its founder Muhammad Yunus • Cambridge Varsity shuts door on Sanskrit as a subject of undergraduate study; 14. First International Rome Film Festival begins; 16. Shoaib Akhtar and Mohammad Asif fail a drug test; 19. Heather Mills says Paul McCartnery tried to kill her • Muhammad Yunus may

launch a political party •90% of globe to be mobile by end of the decade •Dow Jones sails past 12,000 mark; 20. Opec to cut oil output by 1.2 m.barrels a day from Nov.1; 21. 'Hong Kong Protocol', a new liver transplant protocol can halve Hepatitis B surgery costs •35 Tiger rebels killed in Sri Lanka sea battle. 22. Britain to reduce House of Lords in size by more than a third.

Calendar of Events, India

November, 2005

New CM for J&K

1. Y.K. Sabharwal is sworn in new Chief Justice of India . Former President K.R. Narayanan in hospital •Delhi reacts to President Musharraf's suggestion on demilitarising both sides of Kashmir saying that it could not be done unilaterally; 2. Ghulam Nabi Azad swom in J&K Chief Minister; 3. India wins Videocon Cup beating Sri Lanka in ODI series in Pune. •Congress to send a legal notice to the parties concemed on the Volcker Committee report; Govt. is concerned about the unverified references; 4. Rupee touches year's low against US dollar at 45.52 . HRD Ministry asks all Ministers and Departments of Central and State Governments to in-

clude the mother's name in all certificates and documents: 5. Union Minister of State for Water Resources I.N. Yadav (of RJD) resigns, after warrants. were issued against him for forcibly securing the release of his brother from police custody; 6. Sam Manekshaw, 96, moved from Wellington to New Delhi for treatment . Stampede at a relief distribution centre in Chennai kills six; 7. Number of cotton growers committing suicide in Vidarbha crosses 100 • Foreign minister Natwar Singh demoted to Minister without portfolio •Kerala ranks first in gender report by National Productivity Council, followed by Tamil Nadu, Punjab and Gujarat • Czech President V. Klaus in New Delhi; 8. Sensex climbs to 8317 Prime Minister says there is no

evidence against Natwar Singh or Congress in the Volcker case ·BSNL's profit Rs.10.000 cr. in 2004-05 •Kerala High Court rules that nuns and priests can enrol as advocates: 9. Former President K.R. Narayanan, 85, dies in Army hospital, Delhi: 10. Govemment announces a reduction in entry fee for NLD and ILD telephone players to a uniform Rs. 2.5 cr. from Rs. 100 cr. and 25 cr. respectively • Supreme Court quashes an order passed by UP's Mulayam Singh government withdrawing POTA charges against State Minister R.P. Singh alias Raja Bhaiya •11th Kolkata Film Festival begins . Former President K.R. Narayanan cremated in New Delhi with full state honours in the presence of President Kalam and Prime



(ARNATAKA GROUP OF EDUCATIONAL INSTITUTIONS

MANAGED BY KARNATAKA EDUCATION TRUST (R)

No. 33/2, Tirumena Halli, Hegde Nagar Main Road, Jakkur Post, Yelahanka Hobli, Bangalore North. Ph. (College): 080-2486 1484, 6760 7707, 2856 2544 (R): 3298 1295 Mobile: 0-98440 57967, 0-94480 70000

Courses Offered:

B.Sc. Nursing

Karnataka College of Nursing

G.N.M

Karnataka School of Nursing

B. Pharma

Karnataka College of Pharmacy

D. Pharma

Karnataka College of Pharmacy

B.Ed.

Karnataka College of Education

D.Ed.

Karnataka Teacher's Training Institute

B.Sc. Bio

Karnataka College of Science

BAMS*

Karnataka Ayurvedic Medical College

Campus

Located just 12 Km. from Bangalore City Railway Station, Campus with new ultramodern features. This exclusive educational complex incorporates the latest technology and its unique architectural design makes it a landmark.

Features

- Computer labs are centrally air conditioned & fully equipped
- Well-stocked library with on-line facility to download journals
- Spacious class rooms with good furniture and teaching aids
- Convenient transport facility
- Highly qualified & experienced faculty
- Fully equipped laboratories
- ♦ Separate hostel for boys & girls

^{*}Subject to approval

52 EVENTS

Federal Bank and Lord Krishna Bank call off the merger of the two banks; 11. Prime Minister Manmohan Singh in Dhaka for

Minister Manmohan Singh •

the 13th SAARC summit • CBI

brings back Abu Salem, a most wanted terrorist and the prime

accused in the 1993 Mumbai serial blasts and his girl friend

Monica Bedi, after a three-year legal process in Portugal; 12. Prime Minister Manmohan

Singh offers open sky policy for SAARC, at the Dhaka summit .

Oct. 29 Delhi serial blasts suspect Tariq detained • Kerala gets 539 of the 1047 scholarships for the single girl child

announced by HRD Ministry •Naxal attack in Jehanabad jail, Bihar kills six persons; 13. Abu Salem 'confesses' role in '93 se-

rial bomb blasts in Mumbai. says a CBI official; 14. Keralites pay homage to former President K.R. Narayanan as the um containing his ashes is brought

to the State •Naxals kill eight Ranvir Sena men kidnapped during the attack on Jehanabad jail •Former UP minister Raja Bhaiya surrenders •Mizoram bans import of birds and pigs from neigh bouring Myanmar and Bangladesh; 15. The dedi-

cated Lok Sabha satellite chan-

nel to telecast 24 hours a day bus A320s • 85 Indian compa- Left parties warn Government nies now have market of serious consequences if it capitalisation above \$ 1 billion votes in favour of referring the Gold sets new record at Iran nuclear issue to UNSC Rs.7415 / 10 gm • B. •Two die and 60 are injured as

Maniappan, a member of the militants carry out a grenade Border Roads Organisation, is attack on former minister kidnapped by the Taliban in

cused Telgi's wife Shahida sur-

Ghulam Hassan Mir's rally in

Tangmarg •Stamp scam ac-

renders; 16. Finance Minister says disinvestment in a few

North-West, Sunil Dutt's non-Navratna PSUs is contern-

plated •Srinagar car bomb blasts kills four and injure 45 • Fifth crossing point for aid supplies opens in Uri: 17. FDI upto 20% permitted for FM radio:

18. In a limited cabinet reshuffle, Manmohan Singh retains the External Affairs Minis-

try. Information & Broadcasting Ministry goes to Priyaranjan Dasmunshi, Urban Development to Jaipal Reddy and Sports & Affairs of Overseas Indians to Oscar Fernandes •

Kerala High Court rules that misuse of public interest litigation for publicity should be dealt with an iron hand •68 p.c. voter turnout in Thiruvan

antha-puram Lok Sabha byelection; 19. As Monica Bedi tells the court that she was not married to Abu Salem, India presses for the extradition of his

ex-wife Samaira Jumani from the US; 20, About 155,000 candidates take the Common Admission Test (CAT) for entry into IIMs and 75 other management schools in the country; 21. Kingfisher Air orders 30 Air-

daughter Priya Dutt beats Sena candidate by 172.043 votes: • Rs. 1 Jakh crore Jawaharial Nehru National Urban Renewal

Mission covering 60 cities to be set up; 23. India tops the list of Global IT and BPO services locations 2005, China and Malavsia are second and third in A.T. Kearney's survey • Indonesian President Yudha-yono in

Afghanistan: 22. NDA under ID

(U) leader Nitish Kumar wins a

resounding victory in Bihar As-

sembly election • In Mumbai

New Delhi • BRO employee Maniappan Raman Kutty abducted by Taliban in Afghanistan slaughtered, body found in Nimroz province, Govt. announces Rs. 10 lakh relief for family • Three CRPF jawan killed in fidayeen attack in Srinagar;

24. In Bihar Nitish Kumar

sworn in Chief Minister, the

an Indian subsidiary, in a tie up

with QUEST • Ramankutty

first NDA government of JD(U) and BIP • IFFI festival begins in Goa • Opposition demands resignation of UPA chairperson Sonia Gandhi, and forces adjournment of both Houses of Parliament over the Volcker Committee report: 25, Sensex closes at an all-time high of 8853.21 • Rolls - Royce set up

Maniappan, the BRO employee killed by Taliban, cremated in Kerala with full State honours . Rabri Devi is elected RID leader, thus becoming Opposition Leader in Assembly; 26. 145 passengers feared killed when

The Strongest Teat. Consistently



two buses are washed away in

floods in Tamil Nadu - one at

Puttukottal and the other at

Sanaveli • Gold reaches a new

T24 FAFU12

National Security Adviser M K

difference

high of Rs. 7400 per 10 ams • Mizoram passes the Organic Farming Act, the first state to

do so •Vijaypat Singhania becomes the first man to sail at 69.852 feet above sea level on

a hot air balloon • Government to deploy women com-

mandos as sky marshals • Tension mounts in Shiv Sena with

between Thackarey and cousin Uddhav · Sachin Tendulkar is back

among the top 10 in the latest LG-ICC Test players rankings:

27. India Economic summit 2005 in New Delhi • Rai Thackeray resigns from Shiv Sena's executive committee •

Narayanan says abduction and killing of BRO employee Maniappan Kutty in Afghanistan was the result of a 'con-

spiracy' between Pakistan and lem • A study by a private Taliban • Aishwarya Rai is to agency puts ONGC as the bigstar in the new Asterix and Obelix film; 28. Fil investments take sensex to above 9000, for

to a record Rs.23.56 lakh crore • Investment of Rs. 10,000 cr. expected in special economic zone infrastructure in the next three years • Rupee breaches the 46-mark again • Defence Minister Pranab Mukherjee tells Lok Sabha that NSA was mis-

quoted, and Govt. had made

all possible efforts to get the

the first time; market cap soars

release Ramankutty Manorama Yearbook 2007

recently appointed General Secretary, suspended Amitabh Bachchan undergoes surgery for an intestinal prob-

Shivaraj Singh Chauhan

sworn in 28th Chief Minister of

Madhya Pradesh; 30. Uma

Bharti, senior BIP leader and

Maniappan, Pakistan had ex-

pressed inability to help as it

didn't have relations with

Talihan • Kanchi Sankara-

gest wealth creator - Rs. 103,000 cr. in 2000-05 • RBI to set up an independent body called The Banking Code and Standard Board of India by Jan.1 • Border Security Force (BSF) to raise a women's battalion.

December

Sachin, No.1 test century taker

1. President API calls for creating a network of rivers in

charva appears before the Sesdollar • Finance Minister sions Court in Pondichenv in Chidambaram says the rising the Sankararaman murder case movement of the stock market Gold is Rs. 7585 / 10 am; 29. index reflects the buoyancy Amitabh Bachchan, now in and confidence in the economy

Tamil Nadu by interlinking the

Cauvery with other rivers ; 2.

Rupee dives to a fresh 14-

month low of 46.11 against the

hospital, has collitis . Sharad Dual citizenship scheme Pawar is elected President of launched for overseas Indians. BCCI, ending Jagmohan except in Pakistan and Dalmiya's 21-year-old hold on Bangladesh • NDA steps up its world's richest cricket body •

offensive against UPA govt, on Prime Minister Manmohan the Volcker Reports and asks for Singh wants India, averaging Sonia Gandhi's resignation: 3. a 7.5% growth now to target Prime Minister Manmohan 10% growth in two to three leaves for Moscow on a threevears • Dual citizenship for PIOs day visit. • Cll Y.K. Sabharwal to be launched in January 2006 says 26 m. cases are pending

before different courts in India. of which 18 m, are criminal cases . Indian mutual fund industry registers a 30 percent growth, says AMFI chairman A.P. Kurian: only-one percent

of people have invested in mutual funds: 4. Sijo lose, in the custody of US-led forces in Irac for four months, released • Taliban denies killing BRO employee M.R. Kutty . Golden Peacock at IFFI goes to Iran's 'Iron Island' (dir. Mohd Rasoulof) . Bairang Dal activ-

ists in Mumbai beat up three

• SC stays Walf Board order on

people distributing copies of the Bible; 5. Chipmaker Intel to invest \$1 b. in India • Bill Gates arrives in India for a four-day visit • Natwar Singh dropped from Congress Steering Committee •On-screen smoking ban to be effective from Jan.1: The Nitte Education Trust established in the year 1979 is a premier educational organization of Karnataka. It manages 22 educational institutions in 3 sprawling campuses - at Mangalore, Nitte and Bangalore. INSTITUTIONS & COURSES OFFERING K S Hegde Medical Academy, Mangalore MBBS. MS / MD A B Shetty Memorial Institute of Dental Sciences, Mangalore BDS, MDS, Ph.D. N G S M Institute of Pharmaceutical Sciences, Mangalore D.Pharm, B.Pharm, M. Pharm, Ph.D. Nitte Institute of Physiotherapy, Mangalore BPT, MPT Nitte Usha Institute of Nursing Sciences, Mangalore GNM, B.Sc, M.Sc Nursing Sarosh Institute of Hotel Administration, Mangalore DHM, BHM Nitte Institute of Medical Laboratory Sciences, Mangalore B.Sc. (MLT) N M A M Institute of Technology, Nitte BE, M. Tech, MCA, Ph.D. Justice K S Hegde Institute of Management, Nitte MBA, Ph.D. Nitte Meenakshi Institute of Technology, Bangalore BE, MBA, MCA Dr NSAM First Grade College, Nitte BBM, B.Sc., B.Com. Dr N S A M First Grade College, Bangalore BBM. B.Com. NRAM Polytechnic, Nitte Diploma Courses in Engineering Nitte Meenakshi Institute of Craniofacial Surgery Fellowship Programme

Nitte Education Trust

Th Floor, Ramabhavan Complex, Kodialbail, Mangalore - 575 003, Karnataka, INDIA Ph: 0824 - 2441875, 2441025, 2441026, 2440129 Fax: 0824 - 2440994 E-mail: admissions@nitte.ac.in; info@nitte.ac.in Website: www.nitte.ac.in

Taj Mahal • Prime Minister Manmohan Singh is conferred the title of Professor Honoris Causa at Moscow University: 6. MUL is recalling 2217 Versa vans to fix a possible fault in the exhaust system • Union Minister K. Natwar Singh announces resignation, following the Volcker Report controversy • Major R.S. Rathore wins the gold in double trap event at National Shooting Championship · Naushad, a Keralite in Saudi Arabia, is directed by court to give one eye to the person whose eye was lost during a scuffle with him; 7. EPF interest rate fixed at 8.5% for 2005-06 • Kerala Chief Minister to take up with Prime Minister the case of Naushad, a Keralite in Saudi Arabia who will lose an eye if a court verdict is implemented • The Left says they are ready for talks on sale of shares of profit-making PSUs . Microsoft to open offices in 33 Indian cities and to invest \$1.7 b. over the next four years • Indian Airlines has a new name. 'Indian', and a new logo inspired by the Sun Temple at -Konark • Cell phone users are 55.31 m. now; 8. Gold sets new record at Rs. 7885/10 gm. Shamilla Tagore is appointed Goodwill Ambassador for UNICEF in India; 9. Sensex reaches 9067 • Government rules out any enquiry by a JPC into the Volcker Committee report: 10. Sachin Tendulkar is world's highest test century maker as he surpasses Sunil

ries at the Ferozeshah Kotla. Delhi • Cyclone 'Fanoos' weakens into a deep depression; 11. Amritsar-Lahore bus (through the Wagah border) has trial run in Islamabad • Prime Minister Manmohan Singh leaves for Kuala Lumpur to attend ASEAN meet • Gangster Abu Salem is suffering from insomnia and memory loss . The Centre to set up a National Commission for Child; 12. Gold prices cross Rs. 8000 - mark • Parliament is rocked by a new corruption expose aired on Hindi news channel Aaj Tak video footage showing 11 members taking money in order to raise guestions in the House . Disaster Management Bill passed by Parliament • BJP-ruled States to adopt VAT • Karnataka to change Bangalore's name into Bengalooru next vear •Pune airport turns international • BSE Sensex crosses 9200 mark • MFs and Fils allowed to participate in gold, silver and crude futures; 13. Earthquake of 6.7 magnitude hits parts of Kashmir, Pakistan and Afghanistan Rajya Sabha member C.S. Lodha suspended • A 6.8 intensity tremor jolts Kashmir again; 14. Uttaranchal hit by earthquake (5.2 on Richter) •Narayana Murthy of Infosys ranked eighth in the list of world's most admired business leaders in a study by Burson-Marsteller with Economist Intelligence Unit • MUL has plans to make a luxury sedan (code YY4)

Gavaskar's record of 34 centu-

•Women constitute only 6 p.c. of total workforce in corporate houses •Kolkatans come out in protest against Sauray Ganguly being dropped from the Indian team •Uma Bharti wants L.K. Advani to resign • lagat Singh, son of Natwar Singh, guestioned by Enforcement Directorate for seven hours; 16. Exclusion of Sauray Ganguly from cricket team raised in Lok Sabha Steel tycoon Lakshmi Mittal (\$20 b.) named the richest indian by Forbes Asia's second annual list of the 40 richest Indians •VAT to be introduced in six more States in April, 2006 • Li Shaohong's 'Stolen Life' (China) bags the Golden Crow Pheasant Award (Suvarna Chakoram) (best feature film) and Chinese director Lu Chuan wins best director award at International Film Festival of Kerala; 18. Demolition of illegal constructions in Delhi in progress •42 die and 37 seriously injured in stampede at a flood relief centre in Chennai Raj Thackeray resigns from Shiv Sena • More Kamataka (ies to have new names fro November next •Preside Kalam hands over certifical of 500 houses for tsunami v constructed Amrithanadamayi Math, Kollam in Kerala; 19. Gover ment to divest 8 percent

Maruti • Sensex closes at 939

by mid-2006, at Rs.9 to 10

lakhs; 15. SEBI unearths

large-scale multiple application

case in the recent YES Bank IPC



A new generation with full of hope and enthusiasm can change India as the trongest economic power very soon. Information technology will be the key for hat breakthrough ". Mr. Rajesh Nambiar Chairman, SITD.

Society for Information Technology Development (SITD) India's largest and biggest IT development organization, which has more than 1,800 branches and 80,000

students. With our roots spreading into the

rural India for developing young professionals

to create a better nation tomorrow.



Chennal (H.O): # 268, 2nd Floor, Cauvery Complex, Nungambakkam High Road, Chennal-34 Ph: +91 44 28203070, 28203060, Fax:28203060

Thiruvananthapuram :Govt. Press Road, Corporation Bank Building, Pulimoodu In Ph: 0471 - 3241817, 2329079, Telefax: 0471 - 2329079

Bangalore: Tripple Ess House, 6th Cross, 19th Main, HAL 2nd Stage Bangalore-03 Ph: +91 80 57665589, 51265362

Hyderabad: 2nd Floor Anand Estate, Himayat Nagar, Hiderabad-29

Mumbal: 9th Floor, Sagar Tech plaza, Sakinaka, Andhen (earti), Mumbai-72
Ph: +91 22 28523799, S5738558
Ahmedabad: STTD:, 704, 7 th Floor, Sapphire Complex, CLG Road:, JAhmedabad: 99
Ph: 079-32200022.

Ph: +91 40 27666548,55977879

Kofkata: STTD, A-10, 10 th Floor, Chatterjee International Centre, 33A, J.L. Nebru Fload , Yofkata-71 Phr: 033-32000178/32009451.

Bhopal: STTD, S-201, Raksha Tower , Chunabhatti, Bhopal-16

Fh: 0755-3200555.

Chandigarh : STTD, SCO, 362, Sector 34 A, Chandigarh-34

Fh: 0172-5071259

Bhubneshwar : STTD, Flot No: 255, Forest Park , Bhubneshwar-09 Ph: 06743204099

www.sitdindia.org

after touching all all-time intra-

day high of 9402.68 •Wipro ac-

Lanka by 259 runs in 3rd and

final Videocon Cup Test, Anil 5

quires Austrian chip design firm innings . INSAT-4A launched New Logic for Euro 47m. •Air successfully, the first to meet the needs of DTH tv service . Sahara wins the rights for the Mobs go on rampage in sponsorship of the Indian Morena, M.P., protesting murcricket team . Hindustan Latex der of former BSP President P.P. launches 'Confidom', the Chaudhary and son . Pawan country's first female condom Kumar Bansal Committee finds •178 cotton farmers of 10 M.P.s quilty in 'cash for ques-Vidarbha commit suicide this tions' scam . Platinum jubilee year •88 buildings bulldozed in Delhi, as protests continue; 20. celeberations of Constitution Amendment Bill Kalamandalam begin: 23. Eleven M.P.s, 10 from Lok to reserve seats for socially and educationally backward classes Sabha and one from Rajya in private unaided educational Sabha, expelled in connection institutions tabled in Lok Sabha with 'cash for guestions' scam a development unprecedented Assam CM offers safe passage in the history of parliamentary to ULFA leaders whenever they come for direct talks with the democracy . Cold wave death centre •P.A. Sangma returns to toll in northern India reaches NCP •Pfizer launches Viagra in 65 • Demolition by Municipal Corporation in Ulhasnagar, the Indian market •FII investments in India in 2005 put at Mumbai, where 855 illegal flats \$10 b; 21. Street protests folhave been named, resumed: low beating up of young 24. Former Chief Minister couples in a park in Meerut; UP Rainath Singh tipped to take Govt. orders an enquiry •Conover as BIP President . Saurav stitution (104th Amendment) Ganguly is recalled to the In-Bill passed in Lok Sabha, prodian team squad for the tour viding reservation for SCs & STs of Pakistan • Fog engulfs most in unaided private educational parts of north India . IGNOU institutions . Amritsar-Lahore launches a full-time PG course bus service to commence on in community cardiology; 25. Jan.20 •India's first wax mu-UN peacekeeper from India seum to be set up at a water killed in an attack by Ugandan amusement park rebels in DR of Congo . Earth-Kanyakumari, Tamil Nadu •Suquake of 5.8 felt in Srinagar . preme Court holds that marry-A.B. Vaipayee is 81 • Four RPF ing an upper class Hindu won't men gunned down by Maoists give a SC/ST woman the SC/ in Visakhapatnam; 26. Sensex ST status; 22. India beats Sri plunges by 171 points • BJP na-

Kumble, in his 100th game, fin-

ishes with 5 wickets in second

gers from CIAL from Jan.1 . BSP expels four of its MPs including three who were involved in the 'cash for guestions' scam . Home Minister says India needs Rs.35,000 cr. to cope with the major natural disasters that struck India over the past one year, 27. Sensex surges by 197 points • Bird flu is on national disaster list *Railway ticket cancellation charges almost doubled in a bid to discourage touts . BIP General Secretary Sanjay Joshi resigns following a sex scandal •Sri Lankan President Rajapakse's maiden visit to India • Mass grave unearthed in Gujarat's Panchmahal district. Skeletons found are reportedly of those killed in Godhra riots; 28. Unidentified gunner attack IISc, Bangalore killing an IIT professor and injuring three others • Sri Lankan President Rajapakse and Prime Minister Manmohan Singh agree on the urgency to begin talks to revive the peace process • 50,000 houses for families affected by development projects in Mumbai opened by Sonia Gandhi •Undenvorld operator Abu Salem put to lie detector test *Bollywood superstar Aamir Khan ties the knot with Kiran Rao, his longtime beau

Centre asks Gujarat govern-

ment to submit a report on the

Panchmahal district; 29. A

forged currency note delivered

at an ATM at Kolkata: ATTUC

found

mass grave

tional executive meets in

Mumbai . Government not to

collect user's fee from passen-

wants an inquiry • SEBI recommends short selling by institutional investors • Chief Minister confirms that the terror attacks on IISc, Bangalore was the handiwork of terrorists; IT firms step up security • Rubber price reaches Rs. 71 per kg • Cabinet clears a proposal for declaring Jaipur an in-

ternational airport *Bihar

Ramsinghasan Singh arrested

for alleged involvement in ir-

regularities in appointments;

30. BSE ends the year at

9397.93, a gain of 42% in

2005; sensex is third best in

Asia •BSNL cuts fixed line

rental by 28% • Rural indebt-

edness is 27 percent, as com-

pared to 23 percent in

Chairman

P.S.C.

1991*LeT hand suspected in Bangalore IISc strike *According to Assocham, India's trade with SAARC countries, now Rs.25,000 cr., may touch 50,000 cr. by 2010, and Vajpayee to retire from active politics; 31. •L.K. Advani re-

100,000 cr. by 2015 •A.B. signs as BJP President.

January, 2006

Sania Mirza, Youngest Padma Shri

1. India and Pakistan exchange list of their respective nuclear facilities • Rampur-Shyamchak village of Vaishali district (Bihar) witnesses buming to death of a woman and her five children, after her huspolice complaint about the theft of a buffalo . An Assocham study puts the corporate tax paid by top 50 business houses in 2004-05 at Rs. 8,995 cr. • 12-year-old Parimarjan Negi becomes the youngest IM • India's forex reserves stood at \$144b, on Dec. 23: 2. Prime Minister Man-mohan Singh spells out implementation, investment and infrastructure and employment generation as priorities for 2006 • 93rd Indian Science Congress inaugurated by Prime Minister in Hydera-bad • Police bust a terrorist plot in Hyderabad, seizing explosive devices and arresting two . Air Sahara

band refuses to withdraw a

SPICES: Facts at your finger tips!

Knowing the peppy facts about Indian spices is profitable and fascinating. Read them regularly in SPICES BOARD'S periodicals.

SPICE INDIA

Published every month simultaneously in Hindi, English, Malayalam, Tamil & Kannada and as quarterly in Telugu and Nepali.

A completely grower-oriented journal replete with informative articles on cultivation methods, post harvest technology, research and quaphining.

Monthly Subscription rates

Tyear Rs.50/- # 5 years Rs. 200/-Quarterly Subscription rates for Telugu and Nepali issues 1 year Rs 20/- # 5 years Rs. 75/-

SPICES MARKET

A Weekly Bulletin in English to keep you updated on prices of spices in Indian and World markets A must for spice traders and exporters

Annual Subscription: Rs. 200/-

Subscriptions indicating the publication and the language may be sent by MO/DD drawn in favour of

Fie secretary



SPICES BOARD INDIA

(Month of Common and Indiato Good of India) PS No. 22⁷⁷ (Lochin 682 325 India 1d 91 424 2333606 2333610 ib 6 6 Feb 91 424 233 429 2334429 Error pub@ndorspices.com

pocedoord/has con Medi www indianskies am

iffers New Delhi-London trip

t Rs. 10,000 (return fare) on

irst-come first-served basis •

2500 Shiv Sainiks quit the Sena

ınd join Raj Thackerary • Pro-

est against proposed steel

plant results in death of five

ribals in police firings; 3.

Sensex closes above 9500 with

719 stocks hitting upper circuit

on BSE • Prime Minister calls

for a second Green Revolution.

with focus on non-food crops,

horticulture and new plant varieties • A top militant of L-e-T,

were tapped during the Volcker Abdul Rahman, arrested in concontroversy; 10. Government nection with terror attack on IISc: 4. The number of BSNL says it will completely exit Maruti Udyoq Ltd. •Maharamobile subscribers reaches 14 m.: 5. Railways opens up shtra bans James Laine's book containerised operation to pri-'Epic of Shivaji' •UPA govt, is vate sector . Chilly weather committed to completing NDA prevails in north India with 177 govt's Golden Quadrilateral deaths so far; • Allahabad HC project; 11. Air India to buy 68 strikes down AMU Amendment Boeing aircraft at a cost of Act conferring minority status Rs.35,000 cr. •Infosys Techto the university • 5-MW solar nologies employee headcount plant to be set up in Rashtrapati to reach 50,000 soon; 12. SEBI Bhavan; 6. French ship unearths another IPO scam in Clemenceau, headed towards IDFC, where a few investors India, should not enter the opened over 14,000 demat country, recommends Suaccounts •Government sells 8 preme Court Monitoring Compercent of its stake in MUL. mittee on Hazardous Wastes earning Rs. 1567 cr. • Sania Management • Munnabao-Mirza seeded No. 32 in Austra-Khotrapar rail service to be relian Open Singles •Airport sumed from Feb. 1 • Leh airmodemisation by AAI is acceptport to be renamed. Kushok able, say Left parties •NGOs Bakula Rimpoche airport, after want field trials of Bt Cotton the Head Lama of Ladakh . Cbanned •US senator John Kerry, DAC to release software tools in Delhi, wants fissile material and fonts in seven more Indian cut-off included in the July 18, languages . Four new mem-2005 nuclear deal with USA bers added to CWC • First un-Domestic Mutual Funds eqmanned Aerial Vehicle squaduity assets reach Rs. 75,000 cr. Managama Vasahaak saas

Mina stampede •Fiat cars to be marketed through Tata dealerships . Forex reserves rise to \$ 139.352 billion; 14. Arundhati Roy turns down the Akademi Sahitya Maharashtra governor S.M. Krishna signs the controversial ordinance seeking to regularise illegal buildings in Ulhasnagar •An imam with LeT links arrested in Mumbai Animal Welfare Board gives the green signal to Aamir Khan's 'Rang De Basanti', as there is nothing obiectionable regarding the treatment of animals in the movie; 15. Singapore invites Indian institutes of repute to set up campuses there •BIP asks Prime Minister to ensure that the two bank accounts of Italian businessman Ottavio Quattrocchi, lying frozen for the past 30 months, remain frozen •Second snowfall in the month cuts off Kashmir valley: 16. Paktrained LeT militant Habeeb arrested in Almatti •SC issues notice to LS Speaker on expulsion of an MP in connection with "cash for question" scam Supreme Court disallows entry of the controversial ship Clemenceau into India till Feb. 13; 17. HRD Minister says IIMs cannot establish campuses abroad 'as of now' . A.K. Telgi of the fake stamp paper scandal and two associates sentenced to 10 years R.1: 18. Cri-

sis in Karnataka as there is a di-

vision in JD(S); H.D. Kumara-

13. 59 Indians are among the

362 Haj pilgrims killed in the

ron of Indian Navy commis-

sioned; 7. Voting rights to be

granted to overseas Indians: 8.

Delhi's coldest day in 70 years,

temperature 0.2°c • AMU to

appeal against Allahabad HC

judgement scrapping its mi-

nority status . NCP leader

Sharad Pawar rules out formation of a Third Front • Gyanpith

Award goes to Marathi poet

Vinda Karandikar •Kashmir's

Dal Lake freezes; 9. BJP alleges that telephones of its senior

leaders including L.K. Advani

swamy to withdraw support to Congress; 19. Jet Airways buys

Air Sahara for \$ 500 m • Rub-

ber hits a historic high of Rs.75 a kg; 20. Inflation rate falls to

4.24 p.c. • Kerala High Court rules that marital status is no bar to study nursing . Delhi High

Court stays the operation of a CBSE circular that made it mandatory for all affiliated schools to

provide free education to every single girl child of a parent from class VI • Tamil Nadu Court lifts

the ban on recruitment: 21. 82nd plenary session of AICC begins in Hyderabad; 22. Saudi Arabia repeals the court sentence to gouge out Keralite

migrant worker P.V. Naushad's eye • In Kamataka, H.D. Dewe Gowda supports his son H.D. Kumaraswamy, dashing the

chances of a Congress coalition: 24. Government opens up the retail sector to FDI . SC holds that Governor Buta Singh misled the Centre in recommending the dissolution of the state assembly. It says that constitutional norms were 'perversely" subverted for helping a political

to Lahore leaves . Ganesh Bank of Kurundwad merges with Federal Bank • Seven banks are penalised by RBI in the IPO scam; 25. The popular quiz show 'Kaun Banega Crorepati' to be stopped, owing to Amitabh Bachchan's poor health. President APJ says need of the hour is disciplined action

by every citizen . NDA demands

the resignation of Prime Minis-

party . First bus from Amritsar

of Saudi Arabia is Chief quest at Republic Day Parade in Delhi Bhuta Singh resigns as Bihar Governor • RBI allows banks to appoint NGOs, micro finance agencies, P.O.s and NBFCs to act as banks' Business Corre-

ter and Governor Buta Singh;

26. Republic Day Awards an-

nounced: Padmavibhushan to

9. Padmabhushan to 36 and

Padmashri to 61. Adoor

Gopalakrishnan, Mahashveta

Devi. Nirmala Deshpande,

Norman Borlaug among

an FDI inflow of \$10 b, during the next fiscal, says Commerce Minister . ISRO thinks mobile TV will arrive in three years; 27. 8th World Spice Congress opens in Chennai •Trial

Amritsar-Nankana Sahib bus

•Gold is Rs. 750 per gram •LN.

Mittal launches a \$ 22.7 b. take

over bid for Arcelor, world's sec-

spondents • Govt, is targeting

ond largest steel producer *Sensex crosses 9800 mark Central Council of ICAI decides to prefix 'CA' to the name of a chartered accountant Karnataka Chief Minister Dharam Singh resigns: 28.

as directed by Governor •H.D. Deve Gowda resigns as ID(S) president •260 m. Indians (26 %) are still below poverty line, says the first Social Development

Kamataka deadlock: Assembly adjourned without CM Dharam Singh seeking confidence vote

Government in Kamataka; 29. 14 people, including eight priests, injured in BSF firing on the premises of Kamakhya temple, Guwahati •10th Grand Slam and third mixed doubles

number Governor invites H.D.

Kumaraswamy to form the

crown (with Martina Hingis) for Padmavibhushan awardees. Mahesh Bhupati . S. Sreenath is Sania Mirza is the youngest to in team India again to play ODI get Padma Shri. . King Abdullah against Pakistan • Union Cabinet reshuffled and expanded with the entry of Sushil Kumar Shinde, A.R. Antulay, Murali Deora, Vayalar Ravi, Ambika Soni, etc. Ten Cabinet Ministers, one MOS with independent

charge and 11 MOS swom in Chhattisgarh tableau adjudged the best in Republic Day parade Nandan Nilekani of Infosys becomes a member of the World Economic Forum Foundation board; 30. Rubber RSS 4 is Rs. 7850 for a quintal . Left parties demand US ambassador David Mulford's recall . New Delhi to

leaves on a 10-day tour of Singapore, the Philippines and S. Korea. February Sensex Crosses 10,000

vote against Iran at IAEA meet-

ing in Vienna, if it is called upon

to make a choice: 31. Airport

modernisation programe takes

off - Delhi airport is allotted to

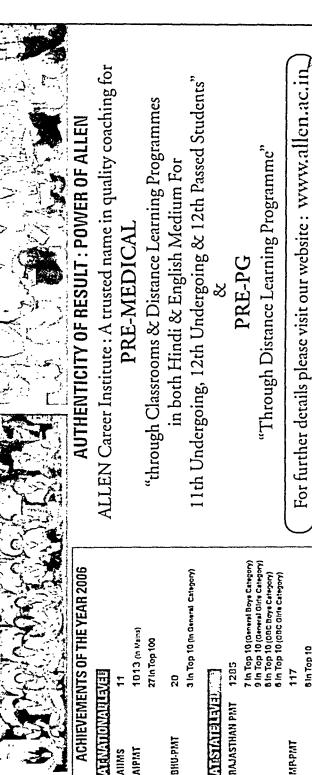
GMR group, and Mumbai to

GVK group . President A.P.I.

Mark 1. Sections of AAI employ-

Report; Orissa has the highest lees strike work protesting air-

Manorama Yearbook 2007



BHU-PMT

AIPIAT AIIMS

ALLEN MANUTE

| SAMANAY, C2102, Phots, Feb-31005 Ph# +91-741-205001

37 In Top 100(in Unreserved Category)

202 (15 PUT Rank 630)

CG-PAIT

Ascending to Marks In University Celegary)

5 In Top 10

MRPMT

4 EVENTS

ort modernisation • Prime

inister says the economy is

oving toward a sustainable

owth rate of 8 to 10 p.c. •

C tells Centre and State govnments it is their duty to ut children between 6 and 14 schools • Centre gives its od to IIMs to go global; 3. Inia achieves prevalence rate of ss than 1 per 10,000 populaon, in eliminating leprosy, as n Dec. 31, 2005; 4. The 4-day irport strike by over 20,000 mployees called off • Job resrvation move in private section iets weak as GoM says the radi- al measure is not possible within the framework of the , Constitution; 5. Trade unions to protest outside French embassy to stop entry of the decommissioned ship Clemenceau into Indian waters . Left parties demand a full debate of tran nuclear issue . Supreme Court says a person working with a government department on contract basis is not a 'govemment servant' . Study finds that Goa has the highest incidence of breast cancer in India: 6. Sensex crosses the 10,000 point mark, for the first time. Climbs by 238 points and closes at 9980.42 • Government 'redeploys' about 5000 troops in J&K to West Bengal due to an improvement in the situation • Pravasi centres to be opened in embassies to address problems of NRIs • 12 policemen die as Naxals raid a police.

Manorama Yearbook 2007

quake (5.7 magnitude) hits The Ambani brothers clash over delay in completing demerger Sikkim, damaging roads and buildings including the Raj formalities • Kerala rated by Bhavan and a monastery World Travel and Tourism Army submits data on the Council as one of the major number of Muslims in its ranks tourism destinations in the to Defence Ministry but reworld along with Greece and quests that the information be Mexico: 7. Sensex closes above not given to the Rajinder Sachar 10,000 points (10082.28) for Committee •Prime Minister the first time ever • Maharasays, in reply to Left attack on shtra to enforce a thickness-spe-Iran policy, government's taccific ban on plastic carry bags minimum permissible thickness tics and strategy will change with the ever-changing world's is 50 microns •Raj Babbar susreality •Total number of phones pended from Samaiwadi Party for 'levelling baseless charges' in India reaches 130.8 m, with a teledensity of 11.7%; 15. against General Secretary Amar Singh • ITT-Madras to offer M.A. India's fastest train, Delhi -Programme in humanities; 9. Bhopal Shatabdi Express, Government to set up a mail flagged off - the 198 km Delhiregulatory and development Agra stretch to be reduced by authority (MRDA) • Curfew imhalf an hour. •Maharashtra has posed in Leh after clashes bethe highest number of houses tween Muslims and Buddhists without power - 38 lakh rural triggered by reports of alleged households in 744 village have desecration of the Quran at a no electricity; 16. Dawood mosque in Kargil; 10. Govern-Ibrahim's nephew Samir Wagle ment to amend the Foreigners' arrested •IISCO merges with its Act • Eight CISF jawans killed parent body SAIL •64 sitting in Naxalite attack in Chhattis-West Bengal MLAs including garh . E-passports likely by eight ministers not to figure in 2013 • Fast-track craft INS upcoming Assembly elections Bangaram joins naval fleet: 11. SemIndia to set up Fab City in Muslims hold countrywide A.P. •China says it fully supports demonstrations denouncing the New Delhi - Washington the Prophet cartoons in a Dannuclear pact •French President ish newspaper and burn the opposes the \$ 23 b. L.N. Mittal Danish flag; 13. Following Jusbid to take over Arcelor •France tice Rajinder Sachar Commito offer India the Rafale ttee's seeking details from the multirole fighter in place of Army on the number of Mus-Mirage-2000-5 fighter, 17. Lok lims in its employ, PMO ex-Sabha speaker asks MPs facplains that the information was ing an inquiry into their constation in two attacks in being sought from all departduct in the implementation of Chhattisgarh and Jharkhand • ments and agencies; 14. Earth-MPLAD scheme not to attend.

Preparing for CAT 2007?



No matter where you come from ... One solution for all



The finest MBA entrance preparatory course to help you clear national & state level entrance tests like CAT, XAT, SNAP, JMET, HFT, FMS, ATMA, CET, RMAT, MET etc.

For more details, contact your nearest PT Gentre.

Regd. Office: Narayan Kothi, Race Course Road, Indore. Ph.: 2549800-01 Corp. Office: 214-17, Naurang House, Opp. H T Bldg., 21, K G Marg,

- New Delhi 01 Ph.: 41510891/92/93

 * Ahmedabad (4) * Allahabad * Auragabad * Bangalare (2) * Barada * Eheruch

 * Ehilai * Ehimara * Ehopal * Bikaner * Chandigarh * Coimbatare * Dehradun

 * Delhi (8) * Chandigarh
- Dethi (8) Ghaziabad Gwalior Hisar Indore (3) Jabolpur Jaipur (2)
 Josepur Kota Ludonow Meerut Nagpur Nasik Pune (2) Raipur Surat
 Udaipur Ujjain V V Nagar Varanasi



he House • Indian corporates aised \$ 12 b. in 2005 from verseas market . Inflation omes down to 4.08 p.c. • angarajan Committee recomnends Rs. 75 hike per LPG cylider • Violence breaks out in lyderabad during a protest gainst the pictorial depiction f the Prophet; 18. First cases f bird flu detected in Aaharashtra's Nandurbar disict-50,000 birds die, 8 people ospitalised with suspected ird flu •ED questions Natwar ingh, in the oil-for-food scam Demonstration in Lucknow gainst publication of caricaures of Prophet Muhammed H.D. Deve Gowda suspends hief minister Kumaraswamy ind 39 other rebel MLAs from D(S) following their tie-up with 3IP to form a coalition governnent in Kamataka •Pakistan and India resume a train service icross the Thar desert, 40 years ifter it was suspended -Karachi o Munabao; 19. •Lakshmi viittai expresses confidence in vinning the acquistion of ircelor, despite opposition rom European governments P.A. Sangma (NCP) wins Tura ok Sabha seat in Meghalaya or the ninth time, in by- poll Assocham thinks trade with rance will touch 10 b. euros y 2010, as a result of Chirac isit • Indians bought 4.3 m. ersonal computers in 2005 25 injured in an explosion at hmedabad railway station; O. Fatwa against the Danish

price of Rs.335, 25 cr. •Christian Dior, French fashion company, opens its first outlet in India; 21. Sensex touches alltime high of 10168.11 •Union Minister Pawar says the bird flu is confined to a small area • Culling of birds continues in Maharashtra and Guiarat Government asserts that armed forces recruitment is based on merit and open to all citizens *PDP chief Mehbooba Mufti calls for declaring 1&K a 'free trade zone' •President Kalam wants more Indian companies to storm into the Fortune 500 list in a big way •Lok Sabha celebrates International Mother Language Day •Poultry industry's loss in Navapur district put at Rs. 20 cr. National loss put at Rs. 200 cr. per day; 22. Sensex pierces the 10,200 - mark • French nuclear energy giant Areva is reportedly keen to enter Indian market •Bird flu is ruled out in Chilika lake where 1700 migratory birds are found dead •India might go in for three more Russian stealth ships; 23. ISD calls to be 23 p.c. cheaper from March 1. Three sailors killed in blast in warship

court in A.P. . About 80 % of

the 8.5 lakh chickens in

Navapur farms destroyed, re-

strictions on import of poultry

imposed in various states

Neighbouring countries shut

their borders to poultry from

India •MPs demand recall of US

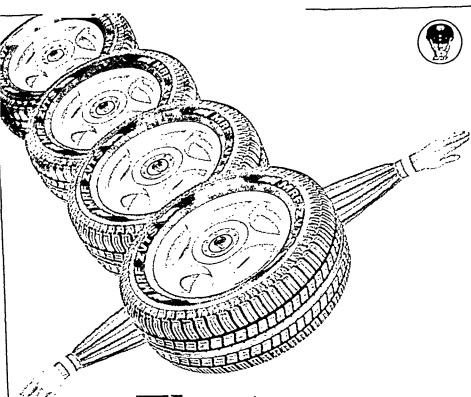
ambassador David Mulford •A

five-acre prime land in

Hyderabad fetches a record

at Vizakhapatnam; 24. Lalu Prasad Yadav presents railway budget: no rise in freight rates or passenger fares, charges on e-tickets reduced, 55 pairs of new trains introduced, AC fares reduced . Nine people given life term in Best Baskery case, eight freed . Supreme Court asks Chief Minister Jayalalithaa to set an example by presenting herself in court in the income tax case pending against her in Chennai • Harrods of London to buy 120 tonnes of Indian tea this year • Bihar govemment announces a judicial enquiry into the 1989 Bhagalpur riot case • Electronic registration of companies to begin on March 6: 26. Car bomb blast on the outskirts of Srinagar injures eight. RSS abolishes the post of party spokesman • Four national medicinal plant processing zones planned • Delhi's Maurya Sheraton Hotel where George Bush and party will stay declared a high security zone • Culling operation completed in Surat district . Government has a scheme to provide free power connection to families below the poverty line • 80 p.c. of rural Bengal yet to be electrified, says Power Minister Shinde • RSS demands immediate scrapping of the Rajender Sachar committee on status of Muslims; 27. Actor Aamir Khan seeks Rs. 21 cr. compensation from Filmfare for using his photograph and a quote without his permission • Economic Survey 2005-06 projects 8.1%

irtoonist issued by a Shariat

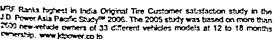


Float on MRF ZVTS

The comfortable radial

The feeling of floating. It is a state of mind. And this state, seems to be the order of the day - for the many motorists who ride on MRF ZVTS. So get the reliability, mileage and control MRF has always given you. Plus unmatched comfort. So experience the \angle force on Indian roads. GetMRF ZVTS... and float.

FROM THE BIG DADDY OF RADIALS - MRF



Entre range of MRF radials are available at most MRF T&S Shownooms, MRF T&S for authorities wheel bolancing & adjument and for deligibility shopping is MRF Radials. For Authorities were the shopping is adjument and for deligibility shopping is also for a few and the shopping is adjument and for deligibility shopping is adjument and for deligibility shopping is also for a few and the shopping is adjument and for deligibility shopping is adjument and for deligibility shopping is adjument.



MRF tops the

J.D. Power Asia Positic Study



growth *Assam changes its name to Asom * Chicken and egg are back on the Railway menu, but not half-boiled eggs, fried eggs, omelette and roasted chickens * The CD containing alleged conversation transcripts of Amar Singh is being examined by Home Ministry * MPs demand retrial of Jessica Lai murder case; 28. P. Chidambaram presents 2006-07 budget * Mulayam Singh Yadav wins U.P. trust vote.

March

George Bush in India 1. US President George Bush arrives in New Delhifor a threeday visit . Sensex shoots up 195 points to reach 10565 • RBI to allow more banks to import gold . Vizag port crosses the 50- million tonne mark again this year . Election Commissioner announces the schedule for elections to West Bengal. Tamil Nadu, Kerala, Assam and Pondicherry, from April 3 to May 8 . Abu Salem has allegely confessed to having delivered three AK 56 guns, handorenades and ammunition to actor Sanjay Dutt . The investigation of SNC Lavlin case to be handedoverto CBI • ICICIBank enters Russian market • Ruckus in Parliament over the naxal attack on civilians in Chhattisgath • Deve Gowda leads anti-Bush protest in Bangalore • Rally In Delhi by Muslims against Bush visit; 2. Sensex soars to 10,700 • Prime Minister Manmohan Singh and US President George

Bush reach an understanding on civil nuclear cooperation • Supreme Court holds that State governments could not levy sales tax on services provide by telecom companies to consumers • Top CEOs from India and USA most the creation of a \$5 b. fund to boost infrastructure development • Raiya Sabha passes a Bill to amend the Minority Education Act for giving more teeth to the Commission set up under the Act • USA likely to lift the ban on Indian mangoes . Left rally in New Delhi against Bush visit; 3. George Bush seeks lifting of FDI caps. transparency and greater market access for US goods, Before leaving India he says that the two countries are closer than ever before . Maharashtra government to take stringent action against striking doctors • U.C. Banerjee Committee holds that the fire in Sabarmati Express at Godhra on Feb. 27. 2002 was accidental . Government says bird flu is totally under control in Maharashtra • Ratan Tata says Tata Power is interested in building a nuclear plant • President Bush visits N.G. Ranga Agricultural University in Hyderabad, and addresses an invited audience at the Purana Qilain Delhi • Human Resource **Development Ministry to grant** IIT status to CUSAT • US Consulate to be opened in Hyderabad in Oct. 2005 • Three persons killed in riots over Bush visit in Lucknow • fT companies get a reassurance from George Bush who rejects 'protectionism against outsourcing of jobs Rajva Sabha passes the Con tempt of Courts (Amendment Bill • Vaiko's MDMK join: Jayalalithaa camp in Tami Nadu: 4. Uttaranchal Chie Minister N.D. Tiwari submitresignation • 760 striking doctors in Maharashtra are Issued termination notices • Mob-police clashes following rioting in South Goa over the demolition of a structure used by a minority community for prayers • The longest (22.20 km) cave system in the Indian subcontinent discovered in Meghalaya's laintia Hills district by an international team of speleologists; 5. United Democratic Alliance of seven parties led by Congress launched in Kolkata • Maharashtra doctors' strike enters 7th day • About 100 families of the minority community evacuated from Curchorem-Sanvordem in Goa, where vehicles, shops and petrol pumps were damaged in two-day riots · Swaraj Paul to become the first Chancellor of the University of Westminister, London• PAN becomes mandatory for demat accounts with SEBI: 6. Prime Minister says India is not for change in Iran regime . India and Australia agree that the possible supply of uranium to New Delhi will be discussed by a group of officials . Monsanto agrees to cut the price of its GM BL cotton seed by Rs.300 per packet of 450 grams •Jaya Bachchan's mem-

bership in Raiya Sabha is ques-

tioned, because of her holding

an office of profit as chairperson of Uttar Pradesh Film Development Corporation • Sensex reaches a new peak, at 10742.31 • Australia gives \$25 m. research assistance to India Guiarat High Court asks UPA government not to table Banerjee panel report in Parliament: 7. IOC given government approval for Rs.7500 cr. investment in oil exploration •India signs Preferential Trade Agreement with Chile •India needs to import 1.5 m. more tonne wheat: 8. Finance Minister asks States to 'spend' more, as they are sitting on huge cash surplus of Rs.50,000 cr. • Sensex falls by 216.82, the biggest drop in four months *Pentagon official to visit Anand to learn from its rural development experience for the reconstruction work in Afghanistan . Walt Disney Company (India) to showcase 'Hanuman', the animation feature *President Kalam leaves for five-day visit to Myanmar and Mauritius • President Kalam says the thorium routewill give India abdundant nuclear fuel in 5 to 7 years Two Lashkar terrorists believed to be responsible for Varanasi blasts, killed •Supreme Court sentences Zahira Sheikh, key witness in Best Bakery case, to one-year imprisonment and imposes Rs. 50,000 fine for contempt of court by making false

mobile telephony by Apr. 2007 · Rai Thackeray's new party Maharashtra Navnirman Sena launched •Uttar Pradesh Assembly passes a Bill to exempt heads of corporations, boards, and councils from being categorised as 'offices of profit' India signs MoU for gas pipeline passing through Mizoram, and skipping Bangladesh • Kerala's Land Revenue Comĸ.l. Alphons missioner Kannanthanam resigns from IAS to contest for a seat in the Assembly: 10. Sensex at all-time high of 10,765 points •Forex reserves rise to \$143,148 b. •27 Indians, led by Lakshmi Mittal (5th place in the rich men's club) in the list of Forbes billionaires *Notice issued by Election Commission to Amar Singh. Samajwadi Party general secretary, on a complaint .Sabir Bhatia to relaunch his travel portal Arzoo.com • Zahir Sheikh of Best Bakery case surrenders in Mumbai; 11. Anil Kumble takes his 500th. Test cricket at Mohali-the first Indian to do so India and China discuss borderissue in New Delhi-President Kalam in Mauritius • G-6 meeting in London, with USA, EU, Brazil, Japan, Australia and India participating; 12. study forecasts 19% growth in India's entertainment and media industry by 2010 •Central affidavits; 9. IRDA asks insur-Sales Tax to be phased out by

ance companies to keep awatch

on large premium payments •

TRAI recommends implemen-

tation of number portability in

tween India and China on the boundary dispute conclude at Kumarakom •India issues new rules on export of nuclear equipment and technology •Hyundai Motor India rolls out its one millionth car, plans to make 6 lakh cars by 2007 •Courier industry asks government to reconsider Post Office Bill •LK. Advani's proposed national integration yatra to commence on April 6 from Gujarat and Raj Nath Singh's yatra from Orissa BSNL and MTNL propose to invest Rs. 20,000 cr. to install an additional 60 m, lines in the next three or four years; 14. Prime Minister says it is in our national interest to engage with USA, but it does not mean India is surrendering its national interest • Avian flu cases detected in Maharashtra's lalgaon district • Russia will supply uranium fuel for the Tarapur reactor Kerala to press for having the Mulleperiyar dam rebuilt by Tamil Nadu to ensure safety of people living in the downstream areas •Lok Sabha members named in the MPLADS scam not to be expelled; Committee recommends only reprimand and suspension till Mar. 22:15. India beats China in textile exports •In reply to US objection to Russia's decision to supply

2009 •India and China discuss

border issue at Kumarakom in

Kottayam, Kerala; 13. India to

help Mauritius' sugar and tex-

tile sectors . Sensex touches

new intra -day high of 10884

•The 7th round of talks be-

statement on oath and for false

light enriched uranium for Tarapur, India says if the US laws are amended that country can also supply LEU to India; 16. 20,000 birds culled in Jalgaon • Russian Prime Minister Mikhail Fradkov arrives on a two-day visit •NDA asks President to remove Election Commissioner Navin Chawla for his alleged links with the Congress •Kunjurani Devi wins a gold at the Commonwealth Games. Melboume: 17. Sensex touches 10.951 and closes at 10.860 • Jaya Bachchan disqualified from the membership of the Rajya Sabha • Violence between residents of Ghansoli village in Mumbairesults in three deaths Best tourism state award given to Kerala; 18. Prime Minister calls for full convertibility of the rupee •Visit of Denmark Prime Minister Rasmussen to India cancelled after New Delhi says this was 'not the optimal time' for the tour •Two IAF pilots die as Suryakiran jet crashes in Bihar Lok Sabha members make a strong plea for taxing rich farmers and raising corporate tax; 19. Government says there has been no human bird flu cases so far •Partnership between Anna Varsity and Microsoft announced •Madan Lal Khurana, former Delhi chief minister, suspended from BJP; 20.V. Kurien,

touches the 11,000 mark •India and Bangladesh agree to join hands to deal with terrorism •Supreme Court rules that non-consummation itself would mean cruelty to a woman and would be ground for divorce Samajwadi Party member Swami Sakshi Maharaj expelled by Rajya Sabha, after his featuring in a sting operation by a TV channel on MPLADS •Uma Bharti to announce a new party by Apr. 30 • A Division Bench of Kerala High Court upholds the judgement that nuns, priests and sanyasins could be enrolled as lawyers provided they don't engage in any full time profession like teaching or nursing •BIP suspends 80 Uma Bharti loyalists .A.P. to develop a 'Golden Corridor' with the Westward Trunk Line covering five districts •Centre to give a bonus to wheat farmers in addition to the minimum support price •Former BCCI president Jagmohan Dalmiya is granted interim protection from arrest, by Bombay High Court, in a case of alleged misappropriation of Rs. 26 lakh for transactions during '96 World Cup; 22. Government expects exports to touch \$110b. in 2005-06 •Delhi High Court issues known as India's Milkman, rebailable warrants against the signs as chairman of GCMMF nine persons acquitted in Jes-(Amul) •Amul launches sports sica Lal murder case •AAl to

strengthen airports infrastruc-

ture at Madurai, Coimbatore

and Tiruchirapalli •ICICI Bank

earlier •MPs ask for a commit-

tee for the girl child; 21. Sensex

curb illegal recruitment in the Gulf and other measures to stop ill-treatment of Indians •Sania Mirza wins WTA's New comer of the Year award •Amitabh Bachchan is back for film shooting, first time after his abdominal surgery •Budget session of Parliament ends abruptly; 23. Sonia Gandhi resigns from the Lok Sabha and as chairperson of National Advisory Council, but says she will contest from Rae Bareli again; BIP President says Mrs. Gandhi is 'running away' from the changes levelled against her; CPM wants new legislation to put certain offices held by MPs outside the purview of offices of profit Liberhan Ayodhya Commission's term extended to June 30; 24. CEC says President has forwarded to him complaints against 16 MPs including Sonia Gandhi and Somnath Chatterjee, seeking for their disqualification for holding an office of profit •Supreme Court rules that the breakaway BSP MLAs will continue as a separate group in the Assembly •Prime Minister flags off the first Amritsar-Nankana Sahib bussince 1947, linking two holiest Sikh shrines •Maoists storm a subjail in R. Udayagiri in Orissa and free 40

sells its entire holding in South

Indian Bank •Uproar in Parlia-

ment over ordinance the Gov-

ernment is preparing to pro-

mulgate to take some posts out

of the purview of the 'office of

profit' . Government to imple-

ment stringent regulation to

drink'Stamina' •TRAI proposes

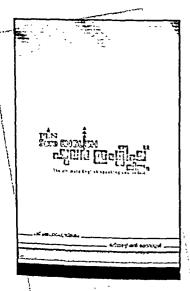
Rs. 5 cr. as convergence fee, in

place of Rs.107cr, suggested :



The ultimate English speaking course nn

Presenting the best course available for speaking english fluently. *Sure English* is not a mere text book to learn English. It is a 6 month certificate course. This complete study course comprises of exercise books, audio cassettes, test papers and progress reports. The course is supported with reading, writing and hearing materials.



424 modules

«24 books

4424 cassettes

Questionaires

«Progress Reports

«Answer sheets

You can also clear your course doubts on-line!

Those who sucessfully complete the course will be awarded certificate from the world renowned Cambridge University Press. Enrol now!

Course Fee- Rs.5800/- One time payment- Rs.4900/-Part payment schemes also available.

An effort by:

Penbooks Pvt. Ltd, PB No. 143, Palace Road, Aluva - 1 (0484) 2630315, 2625668, 2625414, 2622309, 99472 55510, 99472 55513 Fax: (0484) 2623793. E-mail: penbooks@satyam.net.in

prisoners •Congress workers from across the country pour into New Delhi to express support to Sonia Gandhi •Amid chaos, the Iharkhand Assembly passes the Disqualification Bill Reversing its earlier decision, CPM Politburo lets Kerala leader V.S. Achutanandan to contest polls; 25. Medha Patkar urqes Prime Minister to reconsider decision on raising the height of Narmada dam •13 villagers in Chhattisgarh killed by Naxals Anil Ambani resigns from Rajya Sabha • Prince Charles and wife Camilla arrive on six-day visit ·Bihar appoints yoga guru swami Ramdey as its brand ambassador; 26. Prince Charles and wife Camilla arrive on sixday visit; 27. Sensex closes at 11,079; Market capitalisation is at Rs. 29.5 trillion •Planning Commission asks RITES to study the four major mechanised modes of transport for it •India and GCC countries decide to accelerate finalisation of free trade area agreement ·lagmohan Dalmiya, former BCCI chief, questioned by Mumbai police's Economic Offences Wing in the case of mis appropriation of funds •First Large Taxpayer Unit to be operational from July 1 •Infosys Technologies to set up its largest campus yet spread over 550 acres at Mamidipally, Hyderabad •India's Gagan Narang wins gold in 10 m. air-

comes the first Indian to qualify for the Beijing Olympics Satyam Computer Services stop conducting HIV tests on potential employees; 28. An Indian Trade Centre to be established in UAE •All new entrants into Indian armed forces to undergo compulsory HIV test • Sonia Gandhi in Rae Bareli, attacks opposition for finding fault with her •Public Health Foundation of India launched by Prime Minister: 29. Partial solar eclipse •7000 chickens culled in Madhya Pradesh • Low enriched uranium from Russia to fuel the first two reactors at TAPS (Tarapur) •In Islamabad, India and Pakistan agree on economic and commercial cooperation •Padma Awards to 53 recipients given by President in the second part of investiture ceremony: 30. Rajinikant's Chandramukhi sold for dubbing in German and Turkish languages •BITS-Pilani to set up a Rs.160 cr. campus in Hyderabad •Senior citizens can now transfer accounts under SCSS 2004 from one deposit office to another • Sensex crosses 11.300 • Four doctors of AIIMS. New Delhi arrested in connection with the alleged maloractice in the PG Medical Entrance Exam •UN's Escap says India will grow by 8 p.c. upto 2008, but oil prices remain a concern Raymond poised to become the world's largest worsted suiting producer, following its

new facility (Vapi)'s inaugura-

Guangzhou, China and be- : tion •Govt. doubles the finan-

·Ranbaxy, India's top drug maker, unveils its fourth European acquisition in nine days with the purchase of Belgian generic drug company Ethirned NV: 31. Forex reserves touch \$ 148.662 b •Current account deficit narrows to \$3.8 b •Finance Ministry says STPI units are eligible for IT sops •Birnan Bose to succeed Anil Biswas as West Bengal CPM Secretary ONGC is at the top of 33 Indian companies which found a place on Forbes' list of top 2000 corporate titans in the world •India's external debt stood at \$119.2 b, in Dec. '05. April 1. Prime Minister rules out any possibility of a mid-term poll

Film Icon Raikumar Dead

cial powers of Finance and De-

fence Ministers • Foreign Secre-

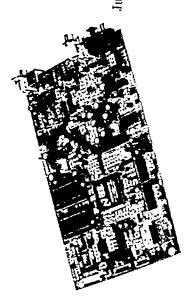
tary Shyam Saran in USA for

talks on US-India nuclear deal

•Five BIP-ruled states - Chhattisgarh, Gujarat, Jharkhand, M.P. and Rajasthan - switch over to VAT •Gurbachan lagat is the new UPSC Chairman • IIM-Ahmedabad raises its annual fee for the PG programme from Rs. 1.58 lakh to 1.77 lakh • Arundhati Roy joins Medha Patkar in sympathy; the latter on the fifth day of her fast at lantar Mantar: 3. A 284-point rise in Sensex takes market to a high of 11,564, the highest ever According to consulting firm KPMG, India needs \$ 10 b. private investment in energy sector . Andhra chief minister

rifle event at ISSF World Cup .

Shooting Championship at



Just to show you the range of industries we've helped to develop.

from Electronics to Apparelt, Animation to Seafood, Biotechnology to Ford Processing, while developed a vast range of industry specific driving in Kerala. Right from identifying the land to infrastructure driving ment and space promotion Killfred, has been, for over a fectual that has been, for over a province of that has been.

Developing industry specific infrastructure Utiliting native resources Providing single window clearance Preserving nature and natural resources

Kerala Industrial Infrastructure Development Corporation
[A Statutory Body of Gost. of Kerala)

7#1 ++31-471-2725595 2724360 Fax: ++91-471-2724773 email: kinfraqvini com www.binfra.com Kinfra House 11/2312 Sasthamangalam Trivandrum 695 010 India

munal clash kills 5 in Aligarh; 7. rency notes, so can't be repla. says a separate Telengana state Foreign Trade Policy Annual if lost, rules Supreme Cod is unlikely •Infosys top official Supplement released, with 10. Actor Salman Khan se says Hyderabad has the best \$120 b. as export target and tenced to a five year jail ten infrastructure for IT in India tosectorspecific initiatives to make after a Jodhpur court held hi day; 4. Jagmohan Dalmiya is India a hub for gems and guilty of killing a rare but interrogated by Economic Ofjewellery exports and a major •India's oil import bill hits a fences Wing of Mumbai police • Sensex reaches 11,710 •IIMrecord high of \$43.8 b. in 2005 refuelling stop for international 06 •About 50 people die in a K hikes fee by 20-22% • India flights • Sensex dives 365 points fire in tradefair in Meerut • Crimiaccounts for over 25 p.c. of intraday, reportedly due to a nal proceedings initiated against maternal deaths worldwide, 'rumour' • Forex reserves reach M.F. Husain in a Rajkot court and Rajasthan has the highest \$151, 62b. • Finance Minister stayed by Supreme Court •Surates (67 per lakh live births) says rupee convertibility is unlikely before 2009 • Rajasthan preme Court declines to modify ·Singapore is considering depasses a Bill prohibiting relisentence for Zahira Sheikh in veloping a SEZ in India; 5. Medha Patkar, on the 8th day of gious conversion 'by use of Best Bakery case . Centre to inher fast, is arrested and moved force, allurement or fraudulent troduce a package for preventing farmers' suicides in A.P., to the hospital in Delhi • Centre means' • About 70 people die Maharashtra, Karnataka and declines to concede to the deas a bus falls into the Chenab Kerala; 11. Sharad Yadav is mands of striking SBI employ-

176 EVENTS

ees • Abdul Latheef Naushad,

freed from prison in Saudi Arabia

NambiarjoinsKofiAnnan'steam

of top advisers •Government

proposes a cess on air travel so

developing smaller airports • A

School of Business is offered a

salary of Rs. 1.04 cr. by an In-

dian IT company for an interna-

tional position •Gagan Narang

tops the world ranking sin men's

10 m. air rifle category • RBI

asks banks to help poultry units

hit by bird flu . WTO D-G

Pascal Lamy in India; 6. L. K.

Advani launches his Ram Rath

Yatra at Rajkot •BJP President

Rajnath Singh begins his 5-week

Bharat Suraksha Yatra • Com- :

that the funds can be used for

student of Hyderabad's Indian

to home in Kerala

river in Dodo, I&K • NCW calls for more stringent implementation of law against sex deterwhere the Sharia Court had a mination tests; 8. Two lakh ordered that his eye be gouged ? more chickens to be culled in out for injuring a Saudi, returns Maharashtra •Aligarh contin-Vijay ues to remain under curfew for the third day after the killing of six people •Kashmir's first

women's

launched •Sonia Gandhi guits Court lifts ban on dance bars chairmanship of Rajiv Gandhi Orissa IPS officer's son Bit Foundation, Indira Gandhi Me-Hotra Mohanty gets 7-year F morial Trust and lawahar for raping a German schola Bhavan Trust; 9. Interpol brands Government to review the defended Dawood Ibrahim as dangerous cision to raise the height of as Osama Bin Laden, He has 11 Narmada dam; 13. Deparpassports, including eight from ment of post to invest Rs. 10,00 India•UGC to fill up 120,000 cr. in stock market •Inflation vacant posts in universities soon, 3.51 p.c. •Six killed, as violen of which 50,000 are teaching

posts • The 7-day SBI strike called

off - fresh cut-off of basic for

determining pension increased

from Rs.8500 to Rs. 21,040

•Indira Vikas Patras are like cur-

magzine 'She'

rocks Bangalore - unruly mo: attack buses and shops, follo ing news of death of film ic. Rajkumar: 14. Grenade atta in a series of blasts kill five 🤅 🕏 injure 40 in Srinagar, twin b

elected national President of

Janata Dal (United) defeating

George Fernandes •Supreme

Court directs demolition of all

fish tanks in Killeru lake area of

A.P.; 12. Phalke Award winner

Kannada film icon Rajkumar,

78, is dead •Sensex plunges

307 points •Bombay High

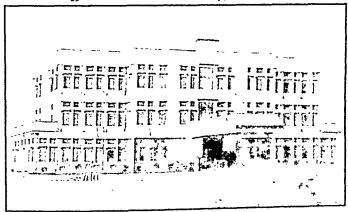


RAJIV GANDHI COLLEGE OF ENGINEERING

(A CHRISTIAN MINORITY INSTITUTION)

NEMILI, SRIPERUMBUDUR, CHENNAI, INDIA PROMOTED BY THE GULF RETURNEES EDUCATIONAL SOCIETY, CHENNAI

Approved by AICTE, New Delhi (No. 732-52-426 (E) ET/ 2001) Affiliated to Anna University, Chennai



ADMISSION 2006-2007 FOR MANAGEMENT NRI & LATERAL SEATS

B.E. COMPUTER SCIENCE & ENGINEERING

B.E. ELECTRONICS & COMMUNICATION ENGINEERING

B.E. ELECTRICAL & ELECTRONICS ENGINEERING

B.E. BIOMEDICAL ENGINEERING (Introduced first time in Tamil Nadu by us)

B.E. MECHANICAL ENGINEERING

B.TECH. PETROLEUM ENGINEERING (Introduced first time in South India)

B.TECH. INFORMATION TECHNOLOGY

SPECIAL FEATURES

Separate hostel facilities within campus for boys and girls

Institute-Industries interacted training for placement

Tie-up with University of Texas, Houston Medical Centre for MS & Doctors pro

assistantship Te'e medicine centre in collaboration with Apollo Te'e Mindicine Nothin

For Admission Florage Contact

Dr. G. GEORGE

General Secretary & Corresponding

11-22, Fast Court, Anna Nagar, Command of Phone: 044-262074 to 28161611

E-mail: thegrest and per North at we



ASIAN INSTITUTE OF TECHNICAL & VOCATIONAL EDUCATION BANGALORE

Affiliated To Asian Organisation of Technical & Vocational Education, United Kingdom DISTANCE EDUCATION COURSES

PG Diploma (1-Yr. For Graduates) • Advanced Diploma (8-Months For 10+2) • Diploma (6-Months For 10) . Certificate (3-Months For 10) in Technical & Vocational Fields & Subjects FOR

SCHOOL/GOLLEGE STUDENTS • WORKING PERSONS • HOUSE-WIVES • BUSINESSMAN

MANAGEMENT FOUCATION Investigation Journalism Labour Leas

Marketing Management Nursury Teaching Conversio Lines Crime Journal sm

Retail Management School Management Taxation Laws Development Journalism

Sales Management Emfish Teaching Criminal Justice Artes Radio Brandcardina Human Resource Mat. Biology Teaching Press & Mod a Laws

TV Broadcaston

Counseling & Guidance Insurance Management Information Tech Lear Hadi Journatism Educational Technology Human Portis Business Journal on

Events Management Advertising Management e-Leaming Merten Lower Script Writing Public Relations Environmental Starters Hotel Loran

Library Somon Office Management Science Teaching Worm Laws MEDICAL & HEALTH Transport Management COMPUTERS & IT Income Tax Laws. Heath & Nichbon Security & Safety Mat. Information Technology Children Realts

Dicteties. Materials Management Computer Applications Athtaton Hardware Engineering Claical Psychology Consumer Protection Financial Management Rights To Islamation E-Commerce Export Management Diabetalogy E-Governance **FASHION & DEAUTY** Supply Chain Mat. Naturopathy E-Leamon Matrim

Customer Relations Mgt. Your Thready Purchasing Management Web Design Britishy Science Acuprostum Agri-Business Mgt Muti-Media & Graphes Committelypy **Diet Therapy**

Har Drissing Total Quality Mad. Data Base Management Magneto Therapy Retres Networking Management Disaster Management Massage Therapy Bodat Make Up Hospital Management Visual C++ Sports Mediane Benity Culture Java Programming Rural Management Physiotherapy

Salam Management And-Marketing Graphics & Animation Herbal Medicare Factors Design MEDIA HOTEL & TOURISM Your Education Fastron Technolyn Journa'ran Hotel Management Tortto Doson Media Management Hydropathy Catering Technology Disable Deviction Broadcast Journalism Food Production Aroma Therapy Fardren Jyznation House Keeping Electronic Journal sm Bia Christis Missiones

Arcard Mirdondring Food & Beverage Mgt. Sports Journal sm Bach Regardes Home Department Scence Journalism Front Office Mat. Polyantin Farbon Retail Mit. **Photography** Accommodation Mat. Attenuative Medicane Farther Medican Web Journalism Cookery & Bakery LAW & JUSTICE Fartisin Advictivity TV Film Production Restaurant Management Intellectual Property Rights Orres Makers Reporting Tourism Management International Laws Everts Maryment

Boden Massym Translation Hospitality Management Insurance Lines Cortism Proise Rural Journalism Eco-Toursm Academic Fees: PG Dp - Rs 7,725' • Adv Dp - Rs.5,725' • Dp -Rs 4,725' • Cen. -Rs 2,725' Distance Teaching: Printed Course Material . Books & Magazines . Question Anner . Auto & Visio Cos

Environmental Laws

· Assignments · Tele-Conferencing · Placement Guidance · Self Harm Europeatons Teaching Medium: Hadi OR Enrich | Exam Centres: At Important Cities & Towns in India

Free Forms & Prospectus may be had from the following centres & branches. BANGALORE; 126, 7th Marri, 4th Block, Jayanapa, Opp. Jayanapa: Poton Staton, Ft. 051250 2005

Editing

Travel Management

NEW DELHI ; A-15, Paryayaran Complex, Maidan Garle Road, Rose Delle - 119 030 BHURANESHWAR ; Station Circle, Mob.: 094310 16591 DEHRADOON; Charmel Road, Mob.: 090350 2007 (PATNA) Dr. Tare Huram Institute, Balley Road, Ph. 2220647 RANCHI ; Dr. Zaliz Huram Imitiste, Daranta Ph. 2220001 JAMSHEDPUR; Dr. Zolar Human Institute, South Park, Phi 2431301 DHANBAD; Dr. Zolar Human Yannara

Behind SSINT Womens Coping, Ph. 00334032762 BHAGALFUR: Dr. Zahr Hilliam 1977 of Administration Ph. 2409203 MUZAFFARDUR: Dr. Zahr Hiram Institut, Kalambagh Chank Pt. 224175 FRANCHISE STUDY CENTRE OFFERS INVITED

mment considering allowing vheat import by private sector Supreme Court says sales tax an't be imposed on lotteries as hey don't come within the iclinition of goods •Telecom engineer K. Survanarayana kidnapped by Talibans (andahar: 29, Naxals kill 13 ibducted villagers Chhattisgarh • Taliban threatens to execute Suryanarayana if New Delhi does not pull out Indians in Afghanistan • Pramod Mahajan undergoes a surgery to wash the abdominal cavity SBI raises interest rates for home loans by 0.25-0.50 per

otes, i.e. 94 per cent: 28. Gov-

May Karunanidhi is Tamil Nadu

lanasakti'.

CM 1. 35 persons killed in two

cent: 30. Uma Bharti launches

her new party 'Bhartiya

separate strikes by terrorists in J & K's Udhampur and Doda districts . Four killed in communal violence in Vadodara •!AF phases out MiG-25 aircraft Pramod Mahajan develops acute respiratory problem •Engineer Suryanarayana held by Taliban killed, even before MEA team reached Kabul; 2. Andhra Pradesh High Court stays SEBI order on Karvy Group, letting it continue normal market activities •India's LNG deal with Iran hits an impasse, as Iran wants changes in the contract ·Bus falls from Thane bridge,

Buddhia Singh, 5, of Orissa covers 65 km in 7.02 hours: 3. Third and final round of polling in Kerala and fourth phase in West Bengal •Army de-

ployed in Vadodara, peace retums •10 killed in J & K, six are militants • ADB to double its financial assistance to India to \$ 2.6 b. by 2008, from present level of \$1.3 b •Karnataka's IT exports, Rs. 40,081 cr. now, ex-

pected to hit Rs. 50,000 cr. in

in New Delhi •Supreme Court asks governments to take steps to achieve total prohibition of liquor, 4. CBI conducts raids at 24 places against former Haryana Chief Minister O. P. Chautala, for amassing property worth over Rs. 1400 cr.; 5. Hyundai Motor India has plans to make a 1.2 litre diesel com-

medical admissions Assocham says mutual fund industry, now worth Rs. 2 lakh cr. would be worth Rs. 4 lakh cr. by 2010 •Music composer Naushad Ali passes away; 6. Dabhol power plant to step up

preme Court rules there won't

be quota for all-India seats in

production to 640 MW by May 15, from the current level of 300 MW; 7. India works out a route bypassing Bangladesh for importing gas from Myanmar Blistering heat wave in North

45°C in Delhi •APJ Abdul Kalam is voted the biggest icon in Tamil Nadu in a CNN-IBN online poll; 8. Election in Tamil

India, with mercury crossing

Nadu. West Bengal and Pondicherry •SEBI allows listed companies to raise money by privately placing securities with OIBs .Heat forces closure of Delhi schools •Medical report on child runner Buddhia Singh says long distance running is not good for him; 9. ISRO and

the current financial year •39th annual meeting of ADB Gover-NASA sign a MoU for placing two US scientific instruments nors opens at Hyderabad •Secon board ISRO's lunar craft ond round of talks by Prime Minister with Hurriyat leaders, Chandrayaan-1 • Mona Pruthi tops in civil services examination •Police register an FIR against Union Health Minister Dr. Ambumani Ramadoss and Dr. S. Ramadoss for allegedly instigating the murder of an pact car •Gold prices cross Rs. 10,000 per 10 gm mark •Su-

AIADMK man who recently defected from DMK; 10. Petroleum Ministry recommends hike of Rs. 5 for petrol, diesel and kerosene and Rs, 50 for LPG; Left rejects the proposal Maharashtra expects record sugar output of 69 lakh tonnes in '06 - '07 crushing season Cauvery Tribunal drops its order to appoint an experts committee on crop pattern and water requirements •Delhi High Court bans interviews of children or parents for nursery admission •IITs to recruit teachers from EU countries •An ocean liner 'SS Norway' reported heading towards the Gujarat coast with suspected load of toxic substances: 11.

killing 31 •Child prodigy



With the Best Compliments from

GANESH TRAVELS

RECOGNISED BY GOVERNMENT OF INDIA
ALL TYPES OF A/C, NON A/C CARS & VANS
WITH ROADWORTHY CONDITION & TRUSTWORTHY DRIVERS

Round the Clock Personalised Service

HEAD OFFICE

35/1, P C O ROAD, EGMORE, CHENNAI 600 008 PHONE: 28190202, 28190303, 28190404, 28190505 ACCOUNTS © 28194243, TELEFAX: 28190990

BRANCH

7, VGP MURPHY SQUARE, GST ROAD ST. THOMAS MOUNT, CHENNAI 600 016 PHONE: 22327300

BANGALORE

9, PAMPAMAHAKAVI ROAD, SHANKARAPURAM, BANGALORE - 560 004 PHONE: 26507766, 26507788, 26620022 TELEFAX: 26509171. Mobile: 98454-92941

BRANCH

712/1, MUNIYELLAPPA GARDEN, KODIHALLI, BANGALORE - 560 017 PHONE: 25276969 ionia Gandhi wins Rae Bareli ok Sabha bypoll by a margin of 417,888 votes •Planning Commission recommends 15 nore IITs; 12. Pilotless target aircraft Lakshya testfired •Central Bank of India's business crosses Rs. 1 lakh crore •Industrial growth dips to 8 p.c. in '05-'06 as against 8.4 in '04-'05 Infosys Technologies to hire 30 interns from 17 European technology and business schools; 13. M. Karunanidhi assumes office as Tamil Nadu Chief Minister, the fifth time, Congress lends outside support to the DMK Ministry; 14. Protests against OBC quota get stronger; demonstrations in Bangalore and Orissa; Delhi medicos begin hunger strike •Tarun Gogoi sworn in Chief

•Best Bakery case: Zaheera's mother Sehrunissa gets three months •Ph.D, M. Phil. holders exempt from NET qualifications •Naxals kill 12 members of a marriage party in Gadchiroli in Maharashtra •Office of Profit Bill passed by Lok Sabha •Tamil Nadu Government says all qualified Hindus can become priests (archakas) in Hindu temples; 17. Babulal Marandi, MP from Iharkhand, resigns from BJP . Committee to study the quota issue in professional colleges •Mukherjee Commission reports that Netaji Bose didn't die in a plane crash; Government disagrees •Information & Broadcasting Minister watches the film The Da Vinci Code: decision on release in India awaited •Recovery in

Minister of Assam for another global metal prices takes term •Srinagar-Leh road sensex up by 344 points; 18. thrown open for the next six Government allows the screenmonths; 15. Another Black ing of The Da Vinci Code with Monday for the stock market. Adults Only certification and a with a crash of 463 points in disclaimer saying it was a work sensex, as metal prices fall, Fils of fiction *Infosys to develop a pull out funds from India, and training facility at Mysore to market across the world suffer train around 9000 personnel at losses Private doctors join the one place . Panicky sales on In-IMA-called nationwide strike. dian stock market lead to medical services crippled •Pass-Rs.225,000 cr. meltdown; Fiports of defiant H.K. Dogra, the nance Minister blames it on former High Commissioner to faulty reporting on FIIs •Tata's New Zealand, and his wife re-Rs. 1 lakh car plant launched in voked; 16. Ban on non-jodised West Bengal •ADAG bags salt for human consumption Mumbai metro rail project; 19. comes into effect •Supreme Reservation supporters in Pama Court says commercial banks clash with police •Pope asks can cancel bad debts with RBI India to allow conversion •Tax approval, and writing off NPAs on interest on senior citizen doesn't mean mismangement [postal savings scheme to be de-

out re-introduction of Capital Gains Tax on equity transaction 32 killed as truck plunges into a ravine near Rajapur in Ratnagiri district •BJP and RSS take strong exception to Pope's comments on alleged religious intolerance in India; 21. Militants carry out a suicide attack on a Youth Congress rally in Srinagar, killing 7 • Striking doctors told to vacate hostels Tarapur N-power station's third unit goes critical; 22. India witnesses the biggest crash in stock market - sensex falls by 1111.70 points, then recovers by 654, and closes with a loss of 457 points. FM assures that there is no liquidity crisis ·Hurriyat not to attend the round table conference •Two members - Andre Beteille and P.B.Mehta resign from National Knowledge Commission in protest against Centre's reservation policy •Doctor's strike continues, as talks fail .Supreme Court seeks view of CEC on the demand of BIP-led opposition

MPs for the ouster of Naveen

Chawla from EC •CAG report

says Delhi's Metro is suffering

losses annually •Government

says TAP gas pipeline project is

not a substitute for IPI project

and can only be an addition:

23. MTNL drops tariff - Delhi-

Mumbai call to cost only 40

p.per minute •Budget session

of Parliament ends; 24. Sensex

sheds 250 points •Second

round table on I&K opens in

Srinagar •Government to raise

ducted at source; 20. FM rules

he number of seats in all edurational institutions receiving Central aid by 54% •Postal Dept. is considering investment of Rs. 225 cr. in stock market Subir Raha's term as ONGC chairman ends•Jaya Bachchan resigns as chairperson by GEAC: 26. • Pondicherry's official name changed to Puducherry •Detailed survey of Sir Creek to begin in November *South-West monsoon reaches Kerala; 27.Saina Nehwal becomes the first Indian woman to reach the final in a four-star event, when she reaches the badminton final of the Philippines Open •Centre orders increase in seats in medical institutions . In Bangalore, child marathoner Budhia Singh is stopped by police from undertaking a marathon race; 28. Bob Houghton appointed chief coach of Indian football team; 29. India and China sign the first-ever MoU on military ties •A 13-member Oversight Committee under Veerappa Moily set up to monitor implementation of OBC reservation •Ailing Kerala MLA Mathai Chacko sworn in at a private hospital in Kerala by Speaker *Rupee loses 23 paise to end at 46.09; 30. Arundhati Roy nominated for Spanish Prince of Asturias Prize for 2006; 31. As Fils continue selling spree, Sensex drops 388 points *Infosys Technologies to increase professionals in China to \$500 in five years, to have SEZs in Mysore and Thiru-

vananthapuram, and additional facilities in Mangalore, Pune, Chandigarh •GDP growth in 2005-06 is 8.4 pc; Recovery in agriculture remarkable •Doctors call off their 19-day-old strike •Screening of 'Da Vinci Code' suspended in Tamil Nadu • •BrahMos testfired successfully for the 12th time.

June

Shashi Tharoor is India's UNSG Candidate

1. Terror strike at RS headguarters in Nagpur foiled; three terrorists (suspected LeT) shot dead: *NSSO survey puts national average of disabled persons at 105 per 100,000, with Kerala (272) topping the states in mental illness •A Krishna temple to come up in Moscow Wullar lake tragedy toll is 21 children and one teacher •Jaya Bachchan again files her nomination papers for the Rajya Sabha •A.P and Meghalaya ban screening of *The Da Vinci : Code*; 2. US slaps sanction Dawood Ibrahim Amitabh Bachchan and wife Java are worth Rs.227 cr. •New four-page I-T returns : form asks for income and expenditure of assessee and his bank and cash balances: 4. The air-version of BrahMos missile to be ready in the next few years; 5. V. Kurien resigns as chairman of IRMA •Petrol price is up by Rs. 4, and diesel by Rs. 2 • Goa bans 'The Da Vinci Code' •N. Gopalaswami to succeed B.B.

Tandon as CEC; 6. IBM to triple its investment in India over three years to \$6 b • Banks in Kerala to consider writing off agricultural loans of upto Rs. 1 lakh taken by farmers who committed suicide . Work on 8-lane ring road encircling Hyderabad and Secunderabad begins . India is the top newspaper 'power', with 78.7 m. copies sold daily . Manipur Assembly passes again the Office of Profit Bill in its original form after Governor returned it a week before • Emigration clearance not required for those with a basic qualification of matriculation, government clarifies: Number of countries requiring EC brought down to 17 from 138; 7. Central team in Kerala to study suicides by farmers; 8. APJ Abdul Kalam makes a sortie in a supersonic fighter jet, Su-30MKI - the first President to do so: 10. National heritage status given to Dandi Yatra route • Women's fashion magazine 'Marie Claire' comes to India; 11. Army is ready to adopt marathon kid Budhia Singh • Heavy snowfall suspends Amamath Yatra • Public telephones and FM radio to be installed in Mumbai buses . Prithvi missile testfired . Militants blow up railway tracks in Sivasagar district • Centre approaches ICAO for clearance a second airport at Navi Mumbai NSG empowered to commandeer any available aircraft for launching 'hot pursuit' of hijackers; 12. Government

has plans to introduce e-passports by 2013 • An Assocham study says manufacturing segments will create 25 m. new iobs in India • IT department asks Jaya Bachchan to file returns for 12 years; 13. Bid on minister M.K. Stalin's life in Madurai foiled • Security beefed up as intelligence reports put Taj Mahal on the hit-list of terror groups; 14. Floods kill 8 in Assam • 3-day talks between India and US end on a positive note • Planning Commission sets 8.5 percent growth target for 11th Five Year Plan . Union Health Minister asks celebrities not to promote cold drinks and fast food . Government clarifies that the Senior Citizen Savings Scheme is taxable . Sensex closes below 9000 • Indian population to touch 1.4 b. by 2026 • Commerce Minister moots a new department for plantation; 15. Shashi Tharoor nominated for UN Secretary General's post • Sensex records the highest single-session gain of 616 points . R.S.Gavai appointed Bihar Governor • Over 4.5 lakh people in 748 villages affected by Assam floods •Industrialist Rahul Bajaj elected to Rajya Sabha; 16. Non-oil trade between India and UAE could cross \$25 b. by 2010, says FICCI chief •The Rs.7986 cr. Hyderabad Metro to get Central funding •Centre raises midday meal aid to States from

Re.1 to Rs.1.50 a child •9.2 km

stretch of Bangalore-Mysore In-

frastructure Corridor Project in-

nuclear warheads a year; 18. 24 passengers killed as bus falls into a gorge from Jammu Srinagar NH1A •The 3rd unit of TAPP to be ready six months ahead of schedule; it will increase nuclear power generation by one-sixth • The aircraft carrier Gorshkov to be delivered to Indian Navy in autumn 2008; 19. Shashi Tharoor meets Prime Minister Manmohan Singh; 20. Two former J&K ministers- G.A. Mir and R. Mattoo - arrested in connection with the sex racket case India and China to meet on June 26 & 27 to arrive at a 'package settlement' of the boundary question' . Seven villages in Dantewada, Chhattisgarh killed by Naxalites •Fresh probe into Kanishka bombing of 1985 by judicial commission begins; 21. 16 States join the Centre's New Pension Scheme •Reliance Industries to invest

Rs.4000 cr.in West Bengal

Lightning kills 69 people

across Maharashtra in the past

few days; 22.Government

clears the sale of 10% equity

stake in NALCO and Neyveli

Lignite Corporation •Govern-

ment stops export of pulses to

control prices; 23. Mittal Steel

nearing Arcelor takeover •CBI

conducts nation-wide raids at

19 places in connection with

augurated; 17. All foreign

luxury cars and SUVs imported

under EPCG scheme to sport a

yellow number plate •A former

Intelligence official J.K. Sinha

says India can produce 50

the enquiry into the Navy wa room leak case •Indo-Pak talk on India's plans to build a bar

rage on J&K's Wullar lake •Ja pan lifts two-decade old ban or import of Indian mangoes •Pro test by people from 400 village affected by six dams being buil

in Narmada valley, in Bhopa

27. Reliance Industries to set u
Reliance Retail Ltd. with an in
vestment of Rs.10,000 cr. ove
time; 28. LTTE denies it ha
owned responsibility for Raji

Gandhi assassination •Brai

Mos, the supersonic cruise mis

sile, is inducted into the Navy

Post Offices may soon be sel ing railway tickets; **29.** S.N Quraishi is made Election Com missioner •Bust of Gandhiji ur veiled in Parliament building i Berlin •Army understood to be against permanent commission for women; **30.** Pakistan raileases visa regime for Indian na

July

tionals.

Nathula Pass Opened

1. Prime Minister announce

Rs. 3750 cr. relief package for six Vidarbha districts; 2. Kera governor gives his assent the professional Colleges Bill; Maragement to go to court again: Bill; 3. Heavy rains lash Mumbicity for the third day •V. Shunglu Overnight Group of Narmada oustee rehabilitation submitted •Home Ministriconsidering a temporary buller proof steel structure in Ayodhy •First-ever agreement to regu

arise bilateral exchanges signe

by Parliament of India and China •Spanish Prime Minister Zapatero in New Delhi •Covenment cuts duties on SAFTA imports; 4. HAL puts produc-

gear, 5. Rain-related deaths in

tion of Sukhoi - 30MKT in top

Maharashtra rise to 28 • AIIMS Institute Body recommends dis-

missal of Director P. Venugopal for violation of Rule 9 of the Conduct Rules; Doctors protest

•Shahi Imam of Delhi Jama Masjid forms new party, U.P. United Democratic Front; 6.

Nathula Pass opens after 44

years enabling Indian and Chinese traders to cross the border. 29 commodities to be ex-

ported to China, 15 to be imported *Investment of Rs. 320,000 cr. in highways, ports

and airports envisaged in the next six years • Rain havoc toll in Kerala is 109 •Supreme

Court refuses to lift the ban on SIMI • 8 new districts being created in JK; 7. Lakshmi Mittal to set up a 12 mt, Rs.40,000 cr. steel plant in Orissa •BSE to di-

vest 51 per cent equity, proposes IPO • Government to declare 500 Ms as Centres of Excellence +ONGC-Alittal com-

bine is looking at buying oil and gas properties in 21 countries •Inflation falls to 4.84 pc *Delhi High Court stays ATM 3 recommendation to terrificate the services of Director F. Virugopal's services. •Certi-

accepts site identified by Hayara Coat for setting to a hother plant •SC says man toth withings sie to be ein

couraged •Centrés Roi S IIII) mouth IT EE DES to •Indian त. इव्टेंबर्ट्ड कि रेड भी व्यक्तिक एके व्यक्तिक एके च प्रश्ना विकास अधिक श्री विकास स्थापक vastra

'ತತ್ತಿಗಿಗೆ 43/ ಪತ್ರಗಿಗ *ತಾಜೆ* • التعليات النافع المحاودة الم

ballistic missile Agni - III : 650 with first successioning textired, but fails in its maiden : 16.35 farmers from Vertices

flight; 10. GSLV-FO2 carrying NSAT-4C communication sat- leging official analyst seek perellite cresies into Eay of Eenod Prime Market Mannerian

dam • Reyaz Airmad Lone mastermind behind grenzde attacks on Sakina littco killed; 11. Over 170 killed and 500 injured

in the seven serial blasts that

2 guidy goezu, grant articuluit

rock stations dotting the Westem Railway service in Mumbai, between 6 and 6.30 p.m. •It is revealed that the GSLV launch was not insured electia plans to buy 8 M i-17 copters from Russia: 12. India describes as 'ap-

palling' remarks made by Pak

Finance Minister Kassin that

draw a link between Mumba attacks and non-esclution of irdo-ak disputer «Mumbai धिका देखारे क्या च विक् विका はなっては、記録を変更 by 315 matheral Gatistical المساورة المعاورة المارية

C. Tandulkar tegins organi Seri 12. Contra constati में) मेराज्याच्या प्रवासित क

origies in Viumital •Cesti المشارية المتعام المتعام المتعام المداوية

Tampest in Sameratathi Delar T. Fire morning

बार्षे उस्त स्थितित हा स्थान ਕਾਰਮਕਰੇਸ਼ਕ ਕਰਮੇਰਿਕਅਨੇ ਹੋਵਾਂ ਜ਼ਿਲ੍ਹੇ ਦੇ ਜ਼ਿਲ੍ਹੇ ਕਰ ਦੇ ਦਿੱਤਾ ਵਿ ad of foreign organisations (Paissia Bandhan, India b •Don population in Gine 355 (nexted 107 in pione) cer au-

put for 2005 by 000th 15. schools, 9. Intermediate range | Farmer of Trivitativa recies

village in Amravachi district al-

mission from Presidents අත්ත स्पांतकांत अस्पा वारं वा فالتقع كالمحالة

construction work on Name at a 1990, acres in Egypt to see up 535 má proportations •ಟ್ ಚಾದ್ ಪಾರ್ಟ್ ಕ

India in the less seen mortis 17. Centre to give Ra 5000 at to develop NH17 in Kerala; 12. Four naval ships being sent to Lebanon for evacuating Indians

from the country, where Hizabolah militant croups are underloraeli attack; 19. Rutes hite three year low of 46.59, as scaring crude oil price causes concern •TCC to recruit anon foreign nationals; 20. Cection to appoint the South Pay Com-

mission is cleared by stained والمراد والمستدالة المستدانية المساء عر برسيعينيه عرضته تا تا يتاسا التعب عليمين المتعقيد المتعارض أأتسنت لهديمت المتعليق فاراح مستعلل K. Tolerand Landing

مروري بالمرازين أواليسيعان فيصل en an an and control of the Salar and a series of the Salar Sala and the second of the second of the

are representable treatment and Broken The bearing the see Bachchan raises 26,000 pounds from UK for victims of Mumbai blasts •Symbiosis, Pune plans a diploma course in chess Syed Ali Shah Geelani placed under house arrest in Srinagar •Cabinet rejects President Kalam's call for reconsideration of the Office-of-Profit Bill; 23. IFFCO to set up a gas-based power plant at Kalol, Gujarat •Tamil Nadu to shift to VAT from January; 24. Interpol in Nairobi says the man arrested on July 21 and suspected to be an LeT man A.K.'Tunda' was a British national of Nigerian parents; 25. RBI hikes its shortterm lending rates for the secand time in two months -reverse repo rate is 6 p.c. and repo rate is 7p.c. •Air Deccan overtakes Indian to become the second largest airline in India in terms of market share: 26. Centre rejects Reliance Industries' proposal to sell natural gas to Anil Ambani's RNRL at a price far below the current market price • The next launch of GSLV-FO2 to take place within one year Six AlIMS -like medical super speciality hospitals to be set up in 6 states in 21/, years Two soldiers in Kashmir picked up for possible links with LeT; 27. Supreme Court discusses Kerala Govt's petition seeking a review of its verdict allowing the raising of the water level in Mullaperiyar dam from 136' to 142' •RBI raises the ceiling on investments that can be made by domestic mutual funds in overseas markets; 28. SEBI lifts

new demat account ban on IDBI Bank, ING Vysya Bank and IL & FS •Microsoft India launches a Rural Innovation Fund in partnership with rename •Bill to IDRC Pondicherry as Puducherry introduced in Rajya Sabha ·Govt admits fall in wheat production- only 9.2 million tonnes against the target of 16 mt: 29. National Security Adviser says there is strong evidence of Pakistans' role in cross-border terrorism; 30. 25,000 people evacuated from low-lying areas in Gujarat •Income Tax returns being received by selected Post Offices Tehri hydroelectric plant is operational •Evacuation of 70,000 people threatened by floodwaters is on; 31. A Forbes survey says India is a better place to Invest than China .Scheme in the offing for investors to park upto Rs. 1 lakh in fixed deposit of commercial banks and get tax benefit.

August

Pankai Advani

1. Banks and housing finance companies hike lending rates by 25-50 basis points Nine-year-old ceasefire agreement between Government and National Socialist Council of Nagaland extended by one more year; 2. German software major SAP plans to invest \$1 b. in India over five years •A parliamentary committee favours a Legislature Assembly

for A&N Islands *UP to set up a Tiger Society •Cauvery Tribunal gets 6-month extension: 3. Justice R.S. Pathak Inquiry Authority finds that former Foreign Minister K. Natwar Singh and his son Jagat Singh misused their positions in getting contracts in oil-for-food scam Annual inflow of FDI into India from US to increase to \$1 b. by 2010; 4. Indian Railways and SBI sign MoU for installing ATMs at 681 railway stations .Furore in Parliament over 'leak' in the media of R.S. Pathak report; 5. Floods in A.P. and Orissa kill 85 • Pakistan expels Indian diplomat Deepak Kaul alleging he was 'caught' red-handed' indulging in anti-Pakistan activities; 6. Natwar Singh gives privilege notice against Prime Minister Manmohan Singh on the alleged leak of Pathak report •India-Pakistan peace conferen scheduled to begin in Laho put off; 7. Ruckus in parliame over Pathak report •Chhat sgarh bans sale of cola; I Sensex crosses 11,000 ma •Tapi river overflows, floor cause havoc in the industri belt of Hazira in Gujarat; ! Gujarat asks for Rs.2000 cr.; interim flood relief •Keral Government bans productio and sale of Coke and Pepsi •7 persons marooned in a ONGC gas plant at Hazira res cued; 10. Rajya Sabha Chair man rejects Natwar Singh's no tice of breach of privilege of the House against the office of

by Parliament of India and couraged •Centre's Rs.15,000 China •Spanish Prime Minister cr. package for 16 A.P. districts Zapatero in New Delhi •Govto prevent farmer suicides •SC emment cuts duties on SAFTA issues notice to NBA for alleged imports; 4. HAL puts producanti-national activities with the tion of Sukhoi - 30MK1 in top aid of foreign organisations gear, S. Rain-related deaths in Lion population in Gir is 359 Maharashtra rise to 28 •AIIMS' CBSE proposes health clubs in Institute Body recommends disschools; 9. Intermediate range missal of Director P. Venugopal ballistic missile Agni - III for violation of Rule 9 of the Conduct Rules; Doctors protest •Shahi Imam of Delhi Jama Mayid forms new party, U.P. United Democratic Front; 6. Nathula Pass opens after 44 years enabling Indian and Chinese traders to cross the border. 29 commodities to be exported to China, 15 to be imported •Investment of Rs. 320,000 cr. in highways, ports and airports envisaged in the next six years •Rain havoc toll in Kerala is 109 •Supreme Court refuses to lift the ban on MI • 8 new districts being creted in JK; 7. Lakshmi Mittal to et up a 12 mt, Rs.40,000 cr. teel plant in Orissa •BSE to diest 51 per cent equity, proposes IPO •Government to delare 500 Ms as Centres of Exeffence •ONGC-Mittal comine is looking at buying oil and us proporties in 21 countries Inflation falls to 4.84 p.c. Dehi High Court stays AllMS ecommendation to terminate he services of Director P. ัดกบฏกกุษโร services. •Centre ecepts site identified by Sans Good, for setting up a with at plant •SC says inter-### mamages are to be en-

testfired, but fails in its maiden flight; 10. GSLV-FO2 carrying INSAT-4C communication satellite crashes into Bay of Bengal •Prime Minister Manmohan Singh doesn't favour stopping construction work on Narmada dam •Reyaz Ahmad Lone, mastermind behind grenade attacks on Sakina Ittoo killed; 11. Over 170 killed and 500 injured in the seven serial blasts that rock stations dotting the Westem Railway service in Mumbai, between 6 and 6.30 p.m. •It is revealed that the GSLV launch was not insured •India plans to buy 8 M i-17 copters from Russia; 12. India describes as 'appalling' remarks made by Pak Finance Minister Kasuri that drew a link between Mumbai attacks and non-resolution of Indo-Pak disputes •Mumbai blast death toll is 186; Life's back to normal; BSE sensex up by 315 •National Statistical Commission headed by Suresh D. Tendulkar begins operations; 13. Combing operations by Anti-Terrorist squad in progress in Mumbai •Delhi police to install high-tech CCTV Cameras in Rashtrapathi Bhavan; 14. Forex reserves

touch \$163. 260 b. •Indian post, in partnership with Dupont, launches waterproof and tear resistant envelope, right in time for the festival Raksha Bandhan, India is ranked 11th in global car output for 2005 by OICA; 15. Farmer toll in Vidarbha reaches 650 with fresh suicide deaths: 16. 35 farmers from Wadhona village in Amravathi district, alleging official apathy, seek permission from President to go for euthanasia •IFFCO and an Egyptian company acquire 1000 acres in Egypt to set up \$325 m. phosphoric acid plant •65 terror modules busted in India in the last seven months; 17. Centre to give Rs. 5000 cr. to develop NH17 in Kerala; 18. Four naval ships being sent to Lebanon for evacuating Indians from the country, where Hizabolah militant groups are under Israeli attack; 19. Rupee hits three year low of 46.99, as soaring crude oil price causes concern •TCS to recruit 4000 foreign nationals; 20. Decision to appoint the Sixth Pay Commission is cleared by cabinet Pak President Musharraf asks India to provide evidence of Islamabad's alleged involvement in Mumbai bomb blasts; 21. Reliance ADA Group to invest over Rs.61,500 cr. in Orissa to set up an institute of higher leaming in IT •A multi-disciplinary university to be set up in Puri (Orissa) by Vedanta Resources; 22. Anthrax kilis two cows in Kerala •Amitabh

50th ye
ment of
ket pie i
•SCI to
vessels ir
miral St
Naval C
and Ori
singing

ar, has a total invest-Rs. 465,100 cr.; mar-

rises to 77.5 per cent acquire 10 offshore n three years•Vice Aduresh Mehta is next hief •Floods in M.P.

ssa •Kamataka makes of Vande Mataram a must on Sept. 7 •Tripura, with 80.14% literacy, is 8th in the country .Telugu director

Kalyana Chakravarthy to make a film on Vande Mataram in 10 languages •Stock market

•Seven killed in I&K violence DIC(K) splits, with T.M. Jacob and Johnny Nellore quitting; closes in on 12000; 2. Sixth 10. Quake (4.0) rocks Pay Commission constituted with Justice B.N. Srikrishna as Meghalaya

chairman •RBI places United Satyagraha centenary •Police Western Bank under moratorium till Dec. 1 • Ganesh Bank

says the Malegaon bombs were made of a deadly mixture of RDX, ammonium niof Kurundwad amalgamated with Federal Bank; 3. Flood trate and petroleum •Vandal-

situation worsens in I&K; 4. ism at Lucknow's Loreto Con-Millions hit by flood in Orissa; vent School: 11. National Relief hampered by rain Commodity and Derivatives •Kerala minister P.J. Jospeh re-Exchange (NCDEX) emerges

signs, following a reported world's third largest agriculmisbehaviour to a copassenger tural exchange •VW to locate its Indian greenfield car manu-

in an aircraft: 5. Sharad Pawar's daughter Supriva Sule is can-

'didate for RS elections *Prime 5 Minister warns State Chief Ministers of terrorist outfits in

Jagat Singh, Natwar Singh's

son; 6. Opposition from Sikh

and Muslim groups to making

singing of Vande Mataram

Mataram sung in offices and

schools of several states •Au-

tomobile industry seeks tax

holiday for investments ex-

Mannama Verrhook anna

ceeding Rs.500 cr.; 8. Tamil

7.

Vande

mandatory:

the country •Congress expels

facturing plant at Chakan, near Pune *India's external debt is

\$125.2 b. •South African Deputy President Phumzile in India •Passenger car sales rise to 83,844 units

Nasreen, Bangladeshi writer.

asks for Indian citzenship or

permanent resident status; 12.

Four of the Memon family

members held quilty in the

1993 Mumbai blasts cases; 13.

Vidarbha farmer suicide toll

in August from 72,272 in the same month in 2005 • Taslima

Yuqoob Rs.14,000 for ticketless travel;

Minister Manmohan Singh visits President of Cuba in Ha-

vana: 17. A UP minister,

leader Ramdhari Singh killed in Buxar • Manmohan Singh asks NAM leaders in Havana to unitedly fight terrorism *Prime

Qureshi,

18. Railway Minister Lalu

Prasad addresses IIM-A stu-

dents on the turnaround of the

railways into the second larg-

est profit-earning state-run unit

Indian crude basket touches

\$59.92, the year's lowest; 19.

fined

convicted in Mumbai blasts case: 16: Prime Minister Manmohan Singh and Pak President Musharraf hold talks in Havana and decide on joint

mechanism to counter terror

India-Australia cricket match

in Chennai abandoned •RID

presses for death penalty for

the three Memon brothers

his way to Havana, says NAM is as relevant today as during the Cold War .Separatists S.A.S.Geelani and S.A.Shah are placed under house arrest •CBI

visit to Brazil for IBSA summit ends: 15. Prime Minister, on

summit . Supriya Sule elected to RS from Maharashtra

Gandhi's

3 Nadu launches Coimbatore as

the Model Tier II IT City . Huge

haul of rocket launchers and

shells in A.P. •Ethanol-blended

petrol to be marketed all over

the country from Nov. 1; 9.

Rubber prices dip to Rs.77 for

ungraded •Prime Minister

leaves on 9-day visit to Latin

America to participate in NAM

summit in Cuba and first IBSA

Ghansar guilty of planting a bomb in Mumbai's Zaveri Bazaar in 1993 • Prime Minister's

reaches 852 •Elephant dies of

anthrax in Thekkady, Kerala

·Geelani re-elected chairman

of the hardline factions of

Hurrivat: 14. Iharkhand's Arjun

Muda NDA government falls;

UPA government with Inde-

pendent Madhu Koda likely

TADA court holds Shoib

Oujaret porce bust a temprist ? modile four Lastica 'sleeper cell members arrested •297 pero cases reported this year •India is years-free, Ministry of Heath sens . HAL to build let fighter engines: 20. 'Delhi Bandh', against a sealing drive by MCD, turns violent, killing three • Iharkhand Chief Minister Madhu Koda wins the vote of confidence .Rs.17,000 crore rehabilitation package for farmers in A.P., Karnataka, Ketala and Maharashtra with high suicide rates being considered •Cyclonic storm kills 15 in West Bengal; 21. President Kalam attends silver jubilee of Sri Chithra Tinunal Institute of Medical Sciences, Trivan-drum *An American Express White Paper says there are 711,000 individuals with Laurd ear of over \$100,000 in India, and new number will grow to 1.1 m. by 2009 *Government to set up one lakh rural computer kiosks *Sensex surges to 12,274.27 • Gujarat Chief Minister Keshubhai Patel's wife Wed in a fire in Ahmedabad ·Sealing and demolition suspended in Delhi till Sept. 25 CPI wants setting up of SEZs stopped • A Kerala Sastra Sahitya Parishad study says Rs 6787 cr. is spent on weddays in the state annually; and Fs. 2800 cr. on medical treatment • Chikungunya kilis 25 propie in Kerala's Alappuzha ರೆ ನರ್ನು 22. Kera's High Court during State Court ban on the minufacture and sale of Coke

and Pepsi •Government plans to add 100 food testing labs to the existing 31; 23. Telangana Rashtra Samiti withdraws support to UPA coalition government, on the Telangana state issue •Government to set up drug banks in the 600 districts in public-private partieship •PHD CO ಮರೇವೇರ್ಯದ್ States (44%) ರ್ (ಗರ್ಲೆಕ ರಕ್ಷುgraphical area) continues or in 30 % to industrial curret ·Deepa Mehta's 'Water' nominated as Canada's entry for 2007 Oscar in foreign film category; 24. 8-year old Mrutunjaya Mandal, runs a marathon and collapses • President Musharraf puts forward his Kashmir solution in his book h the line of Fire *Education Mosto semis deered, varates to use 'universoy' in their rames *UPA chairman Mrs. Gendri savs no Deputy Prime Minister is to be appointed; 25. Mumbai multiple PAN card holders to surrender over 3 lakh duplicate cards by Dec.31 Eight farmers in Vidarbha commit suicide: 26. Mohammed Afzal, the mastermind behind the Parliament attack of 2001, to be executed on Oct. 20 •First case of polio in three years detected in Mumbai; 27. Pakistan allows imports of more goods from India •Speed Post Passport Service expanded to 873 post offices, in addition to the present 220 • Nirupama Rao is Indian ambassador in China •Yerala Government recommends CBI

probe into Marad riots •Oversight Committee recommends a review of OBC reservation regime after five years and again at the end of a decade of implementation • Lata Mangeshkar is 77 • President Kalam's website has 2.4 m. hits on Sept. 12 a record •The Centaur bomb planter Mushbo Tarani, in jet इंग्ल्ड 1993 'हे केंब्रक्टों कि खिन जिल्ला हिल्ला हिल्ला हिल्ला है 25. A SC,000 - torre Rissen wheet consignment rejected by STC because of high percentage of extraneous matter Clearance for 31 more SEZs, including the Rs.53,000 crore investment in Orissa by S. Korean steel company Posco; 29. Growth in manufacturing sector takes GDP crowth to 8.9 per cent . Cabinet clears a Rs.16978.69 cr. rehabilitation package for farmers in suicide-prone districts: 30. Kerala's Palakkad is the first 'total banking' district in India with every household having a bank account.

October

Booker Prize for Kiran Desai

1. Pondicherry becomes 'Puducherry' • Dengue deaths in Delhi • Shiv Shankar Menon assumes office as Foreign Secretary; 2. Anil Ambani is the third richest person in India, as ADAG market capitalisation touches Rs. 100,00 cr. • India and South Africa to treble bilateral trade to \$10 b. by 2010

190 EVENTS Protests over death for Afzal Guru continue in Srinagar Supreme Court says speedy rial is a constitutional right Prime Minister Manmohan iingh and Thabo Mbeki aunch Satyagraha Centenary elebration in South Africa 35 pilgrims drowned in Madhya Pradesh; **3.** LIC's ecord in first premium income - 150 p.c. increase to Rs. 12,390 cr. over last year Kerala where 71 deaths from Chikunguniya are reported, seeks help from Centre and WHO •India's nominee Shashi Tharoor announces withdrawal from the race for UN SG's post, after South Korea's Ban Ki-Moon emerges a clear winner in the fourth straw poll •India emerges as the second largest global cotton producer • Mahesh Bhupathi says he won't play for India •Prime Minister concludes 4-day South African visit: 4, RBI tells banks to issue passbooks to SB account holders •Fidaveen attack on CRPF headquarters in Srinagar, three policemen killed •WHO experts arrive in Kerala to study chikungunya deaths •'Garib Rath', the poor man's AC train flagged off at Saharsa, Bihar; 5. Foundation laid for Western Railway's

dian states; 9. Govt. to hold talks with NSCN(I-M) in Amstedam •More dengue cases reported in Delhi; 10.CBI registers a FIR against former Defence Minister George Fernandes, in the Israeli Barak missile case; 11. Kiran Desai, 35, wins Booker Prize for The Inheritance of Loss - the youngest woman to claim the Rs.42 lakh prize •SC holds that it has the power to review the pardon excercised by President or Governor to a convict; 12. South African cricketer H. Gibbs says in New Delhi South African captain H. Cronje offered him money twice to under perform in ODIs •BSNL cuts STD rates to Re. 1 for fixed line: 13. Parties approve delimitation for 2009 elections •IITs placed No.3 in global rankings of world's 100 best technology universities; 14. Hundreds of Dalits embrace Buddhism and Christianity at a mass conversion programme in Nagpur • Jabbar Patel's film 'Dr. Babasaheb Ambedkar' to be made in nine languages Mayawati says she wants to be the first dalit Prime Minister of India; 15. Air India flight stranded at Heathrow airport for two days arrives in New US Congress on civilian Delhi with 300 passengers

nuclear cooperation with In-

dia •Cll-Infosys to launch a

programme Toward 100 In-

dian Billion \$ MNCs'; 7. 13

lakh people affected by

Chikungunya in the north In-

·Mukesh Ambani is the richest in India, a position held so far by Azim Premji; 16. Sensex gains 192 to reach 12,928 •Mayawati converts to Buddhism; 17. Rupee at 5-month high of 45.27 per dollar . Dabhol power plant to restart by Nov. 15 •Planning Commission targets 9% growth in 11th Plan . Mobile users in India rise to 129.53 m: 19. Veteran actress Srividya,53, dies •35 feared dead in bus plunge near Rewa •SC holds that the creamy India layer should be excluded from reservations for SC & ST in Government 20. Tata Steel announcess the largest Indian takeover of a foreign company with a \$4.3 b. for Corus, the Anglo- Dutch firm; 21. Delhi leads metros in delivering RTI Act •An army personnel arrested in Delhi while allegedly handing over sensitive papers to a driver of Pak High Commissioner, 22, National Security Adviser says India will share intelligence if Pakistan cooperates *Arun Nayar to wed Liz Hurley at Udaipur Palace in Feb', 07 Gas leak in Kota kills one, 70 are ill .Faroog Abdullah wants Afzal to be given opportunity to defend himself •Railways to phase out 10,000 AC coaches •Navy to restore Sea Kings; 24. Pranab Mukherjee sworn in External Affairs Minister and A.K. Antony Defence Minister. .

dedicated freight corridor

project *Family members of

Mohd. Afzal, who is facing

death penalty, meet President

Abdul Kalam; 6. Delay likely

in the passage of legislation in

TECHNCION

PART 03

ຽບດານໄອກຸຮິອກຸກູຍນອເຮືອນາອານຸຊຸ ຽອນວກຸກຸຊິນກ

Dr. V. P. Kulkarni

Former Director, ER&DC, Trivandrum

The best and the very well known model of Knowledge Management (KM) is the human brain. The five senses touch, taste, vision, hearing and smell, collect the data. The brain computes the data, converts it into information and stores it in the memory. One part in the left half of the brain interprets the data while the right half applies logic and starts a thought process. Somewhere else in the inquisitiveness pops up its head and investigation starts. The intuition comes to the aid from somewhere. Feedback is collected from the environment. Finally, a concoction of information, intelligence, intuition, investigation, and inquisitiveness is formed and knowledge is formed. Intelligent and gainful management and utilization of knowledge brings in wisdom, which results into prosperity, well being and creativity to the individual as well as to the society. The technological revolution that is continuously taking place in the world over and the feasibility of collecting enormous amount of data, getting it processed into information, storing the information and converting it into knowledge by of the computer technology has made it possible to have repository of fathomless and limitless expanse of ocean of information and knowledge. Consequently, the management of knowledge using tools, techniques and processes has become a lifeline for the citizens

Knowledge by itself is an abstract perception. It takes different forms and content de-

them to their cherished destination.

• not only for keeping themselves afloat on the

ocean (of knowledge) but also for navigating

pending upon the context of the situation one is dealing with. There is explicit knowledge in the head of an individual about the phenomena, events and the physical entities one experiences or comes across. In the context of an organization, its 'knowledge' is its 'know-how', its proficiency, its capability to take important strategic decisions and above all, its human intellectual potential. This knowledge results in assets like Intellectual Property Rights, patents, trademarks, business plans, intuitive predictions about futures etc. People create synergy by participating in brainstorming sessions and information exchange processes and ap-

Knowledge management basically comprises the following: 1) Knowledge creation generate data, process into information, learn, research, innovate and collate the distributed knowledge. 2) Capture knowledge from the memories, personal notes, scratch pads, dianies of individuals, documents, and computer data bases, often geographically distributed all over the globe. 3) Store the knowledge in knowledge repositories like web servers, databases, knowledge warehouses, knowledge portals and digital libraries. 4) Structure and transform the information and knowledge into well organized format such that it is conve-

niently, easily and quickly traceable and acces-

sible. 5) Share the available knowledge with

people through knowledge fusion into the

society using the ICT and Internet tools. 6)

ply tacit knowledge to find solutions to the

encountered problems as well as to develop

new techniques, know-how, processes and

products.

Manage the knowledge through the smart minds of motivated, committed and knowledgeable individuals. In other words, Knowledge Management system can be defined as a distributed hypermedia system for managing knowledge for individuals as well as for organizations for supporting creation, capture, storage and dissemination of expertise and knowledge. The Internet has provided a mighty tool for KM. Internet comprises a distributed hypermedia system using general purpose client server technology and diversity of knowledge sources and computing resources. Knowledge seekers - all of them often located at geographically distributed places - log on to the Internet and get the information on their computer at any time of day or night, without any time restriction. This has become a valuable asset for intellectuals, researchers and students. However, it is not without problems. There is always a possibility that the user can get totally lost, if not drowned in the vast ocean of information. Those of you who have searched the Internet for any specific topic of interest, would have faced the fact that the Internet search engine, like Google for example, presents before you, within seconds, some lakhs of references and you get totally frustrated and impatient because you can't choose the correct hyperlink, which will take you to the desired information. The whole of the ocean of information is available to you but what you need is a relevant drop from this ocean which contains exactly what you are looking for at the specific time for a specific purpose. The KM, in this case, is to structure, segregate and catalogue this information and provide the tools and techniques to enable you to navigate on the ocean such that you reach your destination - a small drop containing your information, which might be located in some corner somewhere in the vast ocean. Large number of software tools are available which provide access to the knowledge portals and digital

libraries and present the data to the user in value added format using multimedia and virtual reality systems and various tools and techniques like Graphical Use Interface (GUI), animation and 3D virtual projections.

Knowledge-based Industry

The major assets of a KB industry are in the form of information and knowledge and the intellectual property is the capital. Synergy of the knowledge assets of the individual employee, company strategic planning capabilities, knowledge-based products, processes and services, and interdependencies and interactions between the various stake holders and disciplines have turned the industry of the modern society, into knowledge-based industry. Technology is generating better performance and achieving breakthrough in business operations, in productivity improvement and in cost reductions when empowered with knowledge base and wisdom. Ongoing learning and unlearning, and adaptation of knowledge is giving the industry competitive edge. Employees sharing their I nowledge (residing in their brains and computers) can potentially lead to more effective problem solving and generate ideas for new or improved products and services. Basically, almost every industry, be it manufacturing industry, semiconductor industry using nanotechnology, pharmaceutical industry, or nano-biotechnology based industry, all of them are harvesting the knowledge and their structure is becoming increasingly knowledge-based, technology-intensive and skill based. A new class of industry has appeared on the scene in the knowledge and information society today. These industry products and services use information and knowle edge as raw material and the processes are brain based. Computer software industry, IT ... enabled services (ITES), financial and legservices, BPO industry, and media and entitainment industry are some of the example of such industry.

Knowledge Management. Industry has to leverage intellectual assets

through knowledge management. Core competencies get highly developed when deeper understanding of and knowledge about the technologies and processes get embedded into

the products. Knowledge management helps

in identifying risks and in developing better

customer relationship. KM supports creativity, optimizes reengineering of the processes and improves strategic planning. The fundamental dictate of KM is to get the right kind of informa-

tion to the right people at the right time. KM also means sharing of the knowledge with right

participants in right proportions. Organizations

have to develop culture and mechanisms that allow employees to share their knowledge with others, while avoiding information overload or misuse. Organizations have to promote, value and reward sharing of knowledge amongst workers. Knowledge management utilizes tools like Artificial Intelligence and Expert Systems, knowledge modelling programmes and brainstorming sessions. Software tools like secure, store, track and manage documents, synchro-

nous interaction tools, data mining tools, efearning systems, and Enterprise Resource Planning tools (ERP) are often used in knowledge management. Another effective tool for collecting business intelligence and for extrapolation of trend setting predictions is the Delphi analysis. In this process a questionnaire is circulated amongst the experts in the field and their views and opinions about the future of a particular technology are sought. Discussions are held separately with each one of them at least in

projections can diminish the risk of strategic obsolescence.

Intranet and Extranet for Knowledge Management.

A typical KM strategy of a company is implemented through Intranet. All the functionaries are networked on the company's internal network called Intranet, which basically uses Internet protocols and is compat-

ible with the Internet. The information regarding the projects, processes, designs, tools, inventories, consumer requirement; CPM -PERT charts etc. is made accessible to the

persons concerned on a real time basis.

Conference calls are set up amongst the participants. The progress of the work, schedules and bottlenecks are monitored on line. Corrective actions are taken. Such a system helps in improving productivity and lowering costs through synergy of people, processes

and technology.

One of the Inter-company knowledge management systems - Supply Chain Management System - SCM uses extranets. The raw material and component vendor, the sub contractor, the manufacturing company, the marketing company, the distributor and the consumer normally form a supply chain, Extranet is formed when intranets of all these companies are interconnected. Everybody concerned is connected in real time and inventory supply from the component vendor can be regulated in real time as per the requirement of the manufacturing process. The Just In

Time (JIT) inventory management achieved in some cases. The data so obtained is analyzed this process is a big achievement of the SCM and the differences in opinions of several exsystem. The second advantage of the SCM is perts are narrowed down after giving the exthat the stock in the manufactured goods perts a feed back about other's views and by warehouse also gets regulated as market resharing more information with them. A futurisquirements are fed back in real time, which tic technology scenario based on the consensus regulates the quantity of products scheduled is projected on the canvass and is used for for manufacture at any given time. Increased strategic planning of a company. Multiple fuproductivity and lowering of costs are direct ture trajectories based on such analysis and results of real-time monitoring and sharing

the knowledge about the requirements of manufacturing unit as we'l as that of the market demand. Interestingly, SCM is considered analogous to the game of playing cards. The Eridge,' You have partners as we'l as competitors participating in the game. You announce your bids in couscous manner. Your partner makes intelligent guesses based on his own cards. The competitor does not get an inkling of what is happening and makes speculatory advances. The hands' you get are the fruits you and your partner can jointly enjoys.

Knowledge Management in Fishing Industry.

Satel'ites take the pictures of the fish shoals moving in the oceans. The Global positioning system (GPS) using the satellites determine the latitude, the longitude and depth of the location of the fish shoal and transmit it in real-time to the fishing boat. The boats get the navigational assistance from the satellite, reach the top of the spot, where fish is located and see the images of the fish shoal on the monitors of their fish finder equipment. The cache becomes voluminous. Knowledge provided by the high-tech system to the small fisherman helps in enhancing productivity of the fishing industry.

Knowledge Process Outsourcing. (KPO)

Non core processes like for example the infrastructure management is generally outsourced under BPO(Business Process Outsourcing). Since knowledge processes themselves have become part of the input raw material of the Knowledge Based industry, it is nowbecoming common practice to outsource the knowledge processes themselves. Research & Development, design of some of the products and processes, analysis and validation of performance as well as software programme divelopment are outsourced to companies which have the competence in the specific areas. The goal ty and the performance of the

products can be enforced as I production I freycle time can be find and will out discretion mustimate PED infrastruct and remove of the areas in multiplication of the conference of the confere

World Knowledge Platform

The Honourable President of to 1 + Co. At p Abdul Kalambas gradua newdimenti i stiritii a Knowledge Paradigm on Excaged 64 that it is World Knowledge Pistform should the created In His Excellency's address to NAST COM to 19 leadership forum at Mumbrisch 17,02 Cf, be has discussed the Mic (Id Knowled to Flatt, and which will provide are storing portunities for the R&D organizations, impositions, 107, 61 and other manufacturing and other from a group of nations, for yent design development, production and marketing of knowle edge products to meet the world market in association with the partnering nations, India and the minded nations will be strategic partners in trade, buttness and industry and we'll deliver synergetic performance of VAIP in the world market. The VOIP we'll bring together the core competence of the partnering nations for design, development and production of the Enowledge products and systems. The WAA wall lead to evolution of new markets through e-business network. The WKP will initially prepare a knowledge grid, which will connect, using fibre broadband, the R&D institutions uncreaties and the industry from the partnersh nations on selected R&D missions, The WNT enutilize the convergence of bio-name and all technologies and talle up missions maximum i areas related to energy management and care, gene characterization and storage and search as well as research for damage and treatment of cancer, diabetes # natural products, tourism 🚧 hardware, software and m water treatment, etc.

icro Fuel Cells connectivity Fuel-cell-powered vehicles are passé.

t to make their presence felt on our palmery soon. When commercially available, ese will replace conventional batteries like chium-ion rechargeable in the next eneration of power-hungry cellphones, ptops, digital cameras, camcorders, personal gital assistants (PDAs) and other gadgets. The market demand for micro fuel cells is uilding towards mass acceptance by 2008. Esearch firm Frost & Sullivan predicts that y 2008 as many as four million mobile devices will be powered by fuel cells. Another research y Winter Green Research expects the micro uel cell market to reach \$11 billion by 2013. This represents a range of PC, handset, PDA

ind digital devices in a variety of industrial,

Now you can burn copy-protected CD on our CDwriter. No more fear of somebody

ortable fuel cells, called micro fuel cells, are

Disc protection at hand

nilitary and healthcare segments.

tealing your valuable documents and applications! The blank media has a prewritten ession comprising DiscKeeper security elements, leaving 600MB of space free for vriting your digital content and a proprietary vriting software provided free. These CDRs are fully compliant with the Orange Book tandard and can be read on any standard D/DVD reader/writer. uslindia.com offers premium copy protected blank media on which files like pdf, doc, xls, ppt, jpg, bmp, np3, html, mpg, avi, rtf, swf, flv, etc. and

pplications of ones' choice can be written

FLASH IN HARD DRIVES

In May 2006, Microsoft and Samsung showcased the technology of a hard drive with a Flash memory inside, at WinHEC Hardware Engineering (Windows Conference). However, the OS code that supports the Flash package will only ship with Windows Vista. The first unit that Samsung showed off in 2005 had 128 MB of Flash, which was used to cache start-up data and other frequently-accessed information, both to make the loading of the data into RAM faster and to boost laptop battery life. Intel plans to incorporate the Flash on an add-in card rather than putting it in the hard drive. This approach allows the Flash to be replaced easily and will keep hard drive prices down, but will raise the system price. In fact, Intel, Hynix, Micron, Sony and other companies have founded the Open NAND Flash Interface (ONFI) working group, which will develop a specification that might make it easier to incorporate Flash memory in laptops.

The initial specification is expected to be completed before 2007.

Nanotech begets BlueGene

IBM is backing a research centre being developed at Rensselaer Polytechnic Institute (RPI) worth \$100 million. The Computational Center for Nanotechnology Innovations (CCNI), based at Rensselaer Technology Park in Troy, New York, fuels further research into shrinking electronic development including computer chip. An IBM BlueGene supercomputer, yet to be built, will power the effort. It will be able to perform trillion

where security is critical.

calculations per second (70 teraflops). According to Herb Schultz, madeting manager for BlueGene IBM, to do simulations on how molecules react, which is the essence of nanotechnology, researchers need the computing power that Blue Gene delivers.

TV-on-mobile chip

Royal Philips Electronics has released a TVon-mobile chip that is six times smaller than the previous versions. The TV-on-mobile technology provides consumers with live access to news, sports highlights, music videos, interactive programming and more on mobile phones, personal media players and other small portable devices. Named BGT215, the chip measures just 7x7 mm2 but contains all the functionality of a complete digital TV front- end receiver Small size makes it easy to integrate the chip into mobile phones, enabling extensive product differentiation for smaller, more elegant phone designs with greater consumer appeal. The chip maintains the advanced features of prior versions and delivers low power consumption

Chip at tiny new scale. Intel has developed the world's first microchip that promises to be a more powerful, efficient processors. The fingernail-sized memory chip is etched with one billion transistors that are only 45 nanometres wide-around 1000 times smaller than a red blood cell. Packing about two times as many transistors per unit area, it will help future products and platforms deliver improved performance.

Boot Camp Lets XP Run on Intel Macs

Windows XP has arrived on Intel-based Macs, courtesy of two new pieces of software-Apple's Boot Camp and Parallels' Workstation 2.1. Boot Camp is an option for anyone who'd like to run OS X but still needs Windows for productivity or gaming Boot Camp and Parallels Workstation take different approaches to Engaged Windows to Macs. Apple's utility belos automate the process of creating a dual-terest morn on the can run Windows natively. The functional to will be hudt into Mac OS X, dubbed Leopard. In contrast, Parallels employs Intellavirtualisation technology to run Windows and other operating systems from incide OS X. Boot camp works only on Apple's new Intel-based Macs plus a firmware update

Increase battery life

With portable devices like cellphones, PDAs and laptops gaining popularity among consumers everyday, batteries are becoming critical selection enteria for such devices. With the costs of batteries becoming quite significant, here are a few tips which would help a user to wring the maximum performance out of the portable devices. The battery that is used in meb to phones is a compromise between the capacity very in the size and the weight of the battery. So that leaves just one choice to reduce the size and prolonging the life of the batteries because performance comes at a price and the original batteries costs quite a bit to replace

Few tips. The worst enemies of a battery is heat and rough handling like dropped or twisted or otherwise tortured. know that battery will not last much longer if it is charged longer, because the battery can't hold any more charge than it is designed for Besides most of the batteries have a fired life span of a 400-600 cycles of charging and recharging. Each time a device is left on the charger, the device starts discharging after the battery is fully charged. This combined charging and discharging cuts down The ..." of battery quite sharply, Commit complete discharging the batter 2000 recharging is bad. So, charge and the low battery warning,

at 5-10% of the total charges

द्रमार्गार्गात्र

oday microprocessors can be found in children's toys, word processors, pocket calculators, industrial robots, home appliances, etc. - to mention a few of their innumerable uses and there is practically no new machine, instrument, control equipment or

information system that does not have a microprocessor in it. Characteristics of Computer: Speed, Storage and Retrieval, Accuracy, Versatility, Auto-

mation, Diligence (no fatigue), etc.

ticketing, booking vacation, etc.

& home, libraries, scientific research, office automation, report generation, banking, insurance, engineering colleges, manage-ment tool, industrial application, communication, traffic management, medicine, weather processing, space research, defence, stock & share market, games, payroll package, salary slip generation, tax calculation, fashion designing, product design, system analysis, hospitals, architecture, mass mailers, online

Computer Application: Education-at school

Classifications

The first four generations of computers were based on the technology of the age to which they belonged. They were thus based on the vacuum tube technology; the transistor and printed circuit technology; the integrated circuit technology and the Very Large

Scale Integrated (VLSI) technology, respec-

tively. The marvel of the fourth generation

VLSI technology is that a microchip weighing

a few grams — a thin silicon chip using 0.13

micron technology (SDRAM) has a memory

capacity of one Gigabyte (10° or 100 crores of

per pages). (Note: bit is an abbreviation for the binary digit). Presently the development has entered areas of "Artificial Intelligence." These are generally called Fifth Generation computers.

bits of 0s and 1s equivalent of 8,000 newspa-

Today computers can be classified as mainframe computers, mini-computers and micro-computers. Mainframe computers are expensive, large, centralised computer facilities where a super computer (like the CRAY or PARAM or CYBER)

or a large computer (like the DEC 10, IBM

\$390 models etc.) is connected to several

terminals. A multi-user mainframe computer

has a large memory and is capable of speeds

of the order of several billions of floating-

point operations per second (Flops). Mini-computers are also multi-user computers comparatively operating at slower speeds and lesser memory. In the mini-computer category are the extremely popular DEC10, PDP-11 and the VAX-11 computers of the Digital Equipment Corporation (DEC).

Micro-computers are based on standard micro-processors marketed by Intel, Motorola, etc. A micro-processor is a single silicon electronic chip which contains the ALU and the control unit.

Micro-computers are often called Personal Computers or PCs since they were originally intended to be single user devices either at the office or at home. The home computer is a PC providing education, entertainment, information and communica-tion facility at

home. Now-a-days one can send email,

egreetings, chat, play games, hear music,

play video, video conferencing, do shopping, banking operations, reserve traveltichets, with the help of a home PC and internet without leaving one's home.

The Micro World

The micro-computer industry was revolutionised by the entry of 1814, which started marketing PCs in 1980.

Binary System

Zero and one in their endless combination constitute binary system on which computers are based. A scheme of numeration with base ten requires ten symbols or ciphers (including zero), whereas an arithmetic with the base two requires only two ciphers: 0 and 1,

The binary numbers for the following numbers are written as 0 - 0; 1-1; 2-10; 3-11; 4-100; 5-101; 6-110; 7-111; 8-1000; 9-1001, 10-1010; 11-1011; 15-1111; 16-10000.

Boolean algebra was developed to deal with binary numbers. Under the binary system all ordinary arithmetical operations are reduc-ed to their simplest form The binary system of numeration was used early in the seventeenth century by Thomas Harriot.

Understanding Computer

CPU The System Unit contains the heart of the micro-computer - a micro-processor, the Dynamic Random Access Memory (DRAM), floppy disk drive(s) and Zip drive for auxiliary storage, CD ROM drive/writers for multimedia, a built-in speaker and some expansion slots for system enlargement. Additional dynamic memory boards, chips and modules can be used to enhance the memory of the micro-computer. The ROM stores permanently programs essential for the operation of the micro-computer, Multimedia card (sound card) with external speakers and a MODEM (as an interface with telephone tine) can be added to the system unit to enhance its capabilities such as for internet access, etc.

Motherboard A mindledysard is decreased from dispirit up to support a specific type of processor and its performance and set or features depends on the cheeset.

What makes this compresent to increase - t is the fact that all the other commences as the as, video card, sound card, hard direct CD ROMdraes, and exemperation in provider modem, etc., plug into and communicate with each other wa the motherboard. The motherboard acts as the central (and largerty part of any computer,

Chipset The motherbrard is built are unit a chipset that supports a specific class of pro-Crissors and memory. The main system chipmet, commonly called the North Endge, comprises the loose circuits that contain a trive print of how the processor, memory and other integrated components on the motherboard are meant to communitate it acts like a hub, controlling the transfer of data between the processor, its cache, system buses and various peripherals. The time's transfer of data free of error is probably the most important job of the system. Its profeciency in preforming this task dictates how well the system works as a whole. Other than the North Bridge, motherboards also have a separate South Pridge that integrates, manages and controls all texternal IDE, ISA, ECI, USB, IEEE, etc. desires.

Nowadays motherboards with integrated graphics and audio features are geting popullar owing to its. low cost

Memory Today, most FC systems (Fersonal Computer) come with 25t MB items basic applications \$12MD-1GB is non-field a optimal performance when mind give it is? and multimed a programs

The Role of Memory in Computer Frigis in the computer aid sity continue to were the term "memory" to refer to RAM (Ramform Access Memory). A computer over Fam 1: bold temporary matrice and and deto complete tasks. This enables the

CPU (Central Processing Unit), to access instructions and data stored in memory very quickly. A good example of this is when the CPU loads an application program - such as a word processing or page layout program into memory, it allows the application program to launch and work faster and efficiently as possible.

Memory and Storage The term memory refers to the amount of RAM installed in the computer, whereas the term storage refers to the capacity of the computer's hard disk. Another important difference between memory and storage: the information stored on a hard disk remains intact even when the computer is turned off. However, any data held in memory is lost when the computer is turned off.

Megahertz (MHZ) Memory chips has the ability to synchronise themselves with the computer's system clock, making it easier to measure speed in megahertz, or millions of cycles per second. Therefore, it makes it easier to compare the speeds of different components and synchronise their functions. In order to understand speed better, it's impor-

tant to understand the system clock System Clock A computer's system clock resides on the motherboard. It sends out a signal to all other computer components in rhythm Each wave in this signal measures one clock cycle. If a system clock runs at 100MHz, that means there are 100 million clock cycles in one second. Every action in the computer is timed by these clock cycles, and every action takes a certain number of clock cycles to perform. It's possible for the CPU and other devices to run faster or slower than the system clock. Components of different speeds simply require a multiplication or division factor to synchronise them. The variations could be because most of the time, the system bus and other components run at different speeds.

Cache Memory Cache memory is a rela-

tively small amount (normally less than 1 MB) of high speed memory that resides very close to the CPU. Cache memory is designed to supply the CPU with the most frequently requested data and instructions. Because retrieving data from cache takes a fraction of the time that it takes to access it from mair memory, having cache memory can save a los of time. If the information is not in cache, if still has to be retrieved from main memory.

but checking cache memory takes so little

memory is incorporated into the processo

Levels of Cache: Today, most cache

time, it's worth it.

chip itself; however, other configurations are possible. In some cases, a system may have cache located inside the processor, just out side the processor on the motherboard, and, or it may have a memory cache socket nea the CPU, which can contain a cache memory module. Whatever the configuration, any cache memory component is assigned a "level" according to its proximity to the pro cessor. For example, the cache that is closes to the processor is called Level 1 (L1) Cache the next level of cache is numbered L2, ther L3, and so on. Computers often have othe types of caching in addition to cache memory For example, sometimes the system uses main memory as a cache for the hard drive. It's important to note that the term cache car refer specifically to memory and to othe

Networking

storage technologies as well.

A network is the means by which computers share and exchange information and resources across either short distances (Loca Area Networks) or globally (Wide Area Networks). Advantages of Networking are: i Shanng of data, ii. Transfer of files, iii. Data security; iv. Less memory usage, v. Common hardware, software resources, vi. Cost shar-

ing or less expensive.

Making the best use of networking tech-

ology is about making better use of business esources, enhancing productivity and effiiency, reducing costs and gaining competiive advantage. Networking enables everyone in an organisation to communicate with and share resources with everyone else-givng them access to data held in individual Cs, by remote office sites or external suppliers and giving users the ability to share printers, fax, CD-ROM and modem technology etc. Networks can be designed for organisations of all sizes from the small office with between two and ten workstations to the largest international corporations linking thousands of workstations.

Types: LAN - Local Area Network, MAN -Metropolitan Area Network, WAN - Wide Area Network.

A LAN is a group of desktop computers located relatively close to one another and connected through cabling system to enable them to share access to computing resources. LAN satisfies two fundamental requirements-(a) Sharing information and (b) Sharing computer resources. A LAN typically consists of PCs on the same floor of a building or situated on different floors in the same building. It may even consist of computers which are within the factory area, but spread across various buildings like administrative block or production block or warehouse, etc.

LANs consist of workstations which are connected to a central computer called file server (special purpose computers). [Workstations are the nodal computers on which users do their work-like executing their own application programs locally and sending request to the file server for any of the network function and receiveing the response from the file server. All workstations on LAN would have a Network interface.] LAN's topology are of 3 types (a) Star (b) Ring and (c) Bus.

It mainly consists of the following three components:

Medium: Over which data transfer takes

Wi-Fi phone

Netgear and Skype have unveiled a Wi-Fi phone that functions over the voice-over-IP service. The phone allows Skype wireless service users to call anyone anywhere in the world, The Skype users can use the phone on any wireless Internet connection after entering their username password. The phone will function on encrypted Wi-Fl networks as long as the user has the proper network ID.

place. It can be a telephone line; a coaxial cable or a fibre optical cable,

Network Interface Unit (MU): It provides an interface between the LAN medium and the computer hardware, generally a NIU di rectly interfaces with the main system,

Network Software: Runs in each of the computer systems connected to IAM and provides network-wide communication capabilities to the user software. A part of this software resides in the network interface unit

When computers are spread over a larger geographical area, like intercity, intracty, across buildings, etc., and still they are cor, nected to one another in order to stare information, the configuration is called Wide Area Network (WAII). WIET are extensioned LANS. Two LANS can be corrected by tale phone lines and moderns A Pointer Control purpose computer, and terminal movement system (NOS) is required to equation the connection. WALL, treation, and the Tree. take full advantage out only of recovery over-يىيە ئىمىرى ئەھىرىسىيىت ئارىرىمىي دەرىمىيى Ing but also of دىرىمىي working from hores, seeing - ---with external supplied and action of the روسيات ياسي المستسين عاديات و و و و و الماليان الماليان الماليان الماليان الماليان الماليان الماليان الماليان tional offices.

White we will be

Windows Vista is Microsoft's new OS, brought out in six versions, from Starter to Enterprise editions. All versions are available in both 32-bit (x86) and 64-bit (x86-64) architectures, except Windows Vista Starter (only in 32-bit architecture).

Windows Vista Starter Much like the Windows XP Starter Edition, this edition will be limited to emerging markets, mainly to offer a legal alternative to using unauthorised copies. It will be severely limited, for example only allowing a user to launch at most three applications with a user interface at once, will not accept incoming network connections, and physical memory is limited to 2 GB. Additionally, only Celeron and Pentium III processors from Intel, and AMD's Duron, Sempron and Geode processors are supported.

Windows Vista Home Basic Similar to Windows XP Home Edition, Home Basic is intended for budget users not requiring advanced media support for home use. The Windows Aero theme with translucent effects will not be included with this edition. Home Basic will support up to 8 GB of physical memory.

Windows Vista Home Premium Containing all features from Home Basic, this edition will additionally support more advanced features aimed for the home market segment, such as HDTV support and DVD authoring. Extra games, mobile and tablet computer support, file system encryption, and a photo management application are also included. This edition is comparable to Windows XP Media Center Edition and Tablet PC Edition

Home Premium will support up to 16 GB of physical memory.

Windows Vista Business Comparable to Windows XP Professional, and aimed at the husiness market. Does not include the Media Center features of Home Premium, but does include the IIS web server, fax support, offline files, dual physical processor support, Remote Desktop, ad-hoc PZP collaboration capabilities, and support for 128 GB of memory. Product activation is not present in this edition.

Windows Vista Enterprise This edition is aimed at the enterprise segment of the market, and is a superset of the Business edition. Additional features include a singlesession version of Virtual PC, multilingual user interface support, BitLocker Drive Encryption, and UNIX application support. This edition will not be available through retail or OEM channels, but through Microsoft Software Assurance.

Windows Vista Ultimate This edition combines all the features of Home Premium and Enterprise editions, and additionally comes with podcast creation support which Microsoft has dubbed "blogcasting" - a game performance tweaker (WinSAT), DVD ripping capabilities, and special online services for downloadable media, as well as additional customer service options. The Ultimate edition is aimed to be the most impressive edition of Vista, aimed at highend PC users, gamers, multimedia professionals, and PC enthusiasts.

"Home Basic N" and "Business N" editions of Windows Vista will additionally be available in the European Union. These editions will ship without Windows Media Player, as required by sanctions brought against Microsoft for violating anti-trust laws.

Capable: A modern processor (at least 800MHz1); 512 MB of system memory; A graphics processor that is DirectX 9 capable.

Premium: 1 GHz 32-bit (x86) or 64-bit (x64) processor1; 1 GB of system memory;

A graphics processor that runs Windows Aero2; 128 MB of graphics memory; 40 GB of hard drive capacity with 15 GB free space; DVD-ROM Drive3; Audio output capability; Internet access capability.

Features available in specific premium editions of Windows Vista, such as the ability to watch and record live TV, may require additional hardware.

1111113

inux is a scaled-down UNIX operating system originally developed by Linus Torvalds, then a University student in Finland, now used in everthing from PDAs, watches, PCs, consumer electronics, servers and supercomputers.

Beginning Linux was originally Minix, an educational version of UNIX developed by Andrew Tannenbaum. As an interesting aside, we might be talking about Minix today if not for the licensing that Minix required. Few people have heard about Minix today, far less than have heard about Linux.

Early on, Linux grew as a cheap UNIX that ran on Intel-based PC equipment. At the time, you could purchase UNIX for PCs, but at a high cost (as much as \$1500 for a developer's version of Interactive UNIX).

Linux Distributions Technically, Linux is really just an OS kernel, produced under the direction of Linus Torvalds. But, Linux usually comes with a set of utility, desktop, and server programs, including networking suites, Web servers, file systems, compilers, and a whole lot more. For example, Linux includes the XFree86 version of the X Window System, the GNU C compiler GCC, and code from quite a lot of other sources. But to make

things confusing, there's more than one version of Linux.

A number of organisations, commercial and some volunteer, collect together versions of all these programs with the Linux kernel, test that everything works together, and then release what is called a distribution of Linux.

The main Linux distributions include: RedHat, Kondara MNU/Linux, SUSE (self CD-loading), Linux Mandrake; Knnopix; Slackware.

The best Linux distribution to try is the one that is handy or readily available from friends, computer magazines or books, etc. For further reference - url:http://sourceforge.net

Computer virus

Computer viruses are programs that spread across computers by attaching a copy of itself to the files on your infected computer. When you run the infected file the virus gets into action. A virus is usually harmful and can corrupt data, overwrite files, or use up system resources, and slow it down in the process. Some may be merely disturbing like sending email using your addressbook. Viruses are usually writen by programmers to cause trouble.

ญักสุท ฉุกกุรเล

Open Source movement is a large movement of programmers and the computer users that advocates unrestricted access to the source code of software, It grew out of licenses like BSD, the ubiquitous access to Unix source code at universities. The boundary between the Open Source and Free Software movement is blurred, Richard Stallman and Linus Torvalds personify the trend that created Open Source Community of developers. The biggest strength of Open Source has been that it is free. Besides, it has got the advantage of peer-review and sustained innovation in software. The basic idea behind Open Source is, when programmers read, redistribute and modify the source

code for a piece of software, the software is

evolving. People improve it, adapt it and fix its bugs themselves at astonishing speed. Almost everybody knows Linux but there are other success stories like FreeBSD (Unix-like OS); GNU (mother of all FOSS applications, esp., the GNU Compilers), Firefox (web browser as an IE alternative and used by 100 million), Apache (web server hosting numerous websites), MySQL (database server), php (personal home page: web programming language created by Rasmus Lerdorf powering dynamic websites and enterprise as well), Thunderbird (alternate email client to Outlook, without security flaws), KDE (graphical desktop environment FOSS OS), and Debian (a distribution of Linux termed as 'totally free').

) નાપુર દુધાનું

as of March 31, 2006, according to Internet World Status, over 1.02 billion people use the Internet. Google search engine claims indexing 8.05billion pages whereas Yahooclaims 19.2billion. Internet was conceived in the form of computer networking at the Massachusetts Institute of Technology in 1962. After a incubation period of seven years the firstborn of the species appeared on the scene in September 1969 as Advanced Research Project Agency Network (ARPANET) of Department of Defense of Government of USA. The DOD was

working on a complex project where the input of very high academic and technological content was required to be integrated. The work was being carried out at Stanford Research Institute, University of California at Santa Barbara and at Los Angeles and University of Utah. The computers at these four places were networked together and communications between them were established thus creating the ARPANET. ARPANET consisted of four major technological breakthroughs. (1) Interface message processor, (2) Network topology, (3) Network metrics and

(4) Architectural design, M/s Bolt Beranek and Newmon, M/s Network Analysis Corporation. University of California at Los Angeles (UCLA) and DARPA were the agencies working together to evolve the ARPANET. The first public demonstration of the network was organised during the International Computer Communication conference in September 1972 and presented by Bob Kahn, the designer of the ARPANET architecture. The number of computer users connected to the network was 15 in 1971 and rose rapidly to 407.1 million in November 2000.

The next major milestone was in 1982 when Defense Data Networking (MILNET) created TCP/ IP protocol suites for ARPANET and other military networks. It is natural to expect that when large number of users get on to a network, all of them must use the same standard formats and protocols so that the data can be transferred from one system to another in an orderly fashion. These Transfer Protocol and Internet Protocols (TCP & IP) have now been universally accepted. Once the network was established, the users wanted to transfer large data files. Hence came the "File Transfer Protocol" (FTP) (1971). Subsequently E-mail became a reality in 1972.

Computers and Communication It was in 1990 that ARPANET was converted into a

public network and opened to all the citizens. The formal birth of Internet was registered. when Internet Society was chartered in 1992. Internet grew rapidly due to its widespread applications and it provided utility and services to the common man in the society. The first requirement was to develop the capability of transferring files and data from one computer to another. For this purpose, a worldwide network of computers had to be established in such a way that any computer anywhere in the world could be connected to any of the millions and billions of computers - like a spiderweb. No wonder then that this Internet infrastructure was christened as World Wide Web (WWW).

Internet 2: Thirty four US research institutions joined hands in 1996 to form the Internet 2 consortium, Meanwhile, US government also introduced a proposal for next generation Internet - a virtual initiative focussed on federal agencies like NASA, Defense, etc. Both the initiatives being complimentary, have the same goal. Internet 2 offers super speedconnectivity of 155mbps through fibre optic backbones and network protocols. It is believed to achieve a speed 100-times faster than a typical US University-Lab connections and almost 3000-times faster than dial-up connection

光面 770

Web 2.0 refers to a second generation of services available on the World Wide Web that allow people to collaborate and share information online. Unlike the traditional static Web pages of the first generation, Web 2.0 gives users an experience akin to desktop applications. Web 2.0 applications often use a combination of techniques devised in the late 1990s. including public web service APIs (dating from 1998), Ajax (1998), and web syndication (1997). They often allow for

mass participation (web-based social software) The concept may include blogs and wikis. Web 2.0 was originally created as a marketing phrase O'Reilly Media and MediaLive International popularised the term as the name for a series of web development conferences that started in October 2004 CMP Media, which purchased MediaLive, claims the term as a service mark for live events, reserve exclusive use of the term for as conferences

ीर्गिरमीयने नारस्य

■ i-Fi, means 'wireless fidelity.' It is the popular term for a high-frequency wireless local area network (WLAN) that is generically referred to as 802.11 network, more specifically the 802.11b nomencla-ture given by the Institute of Electrical and Electronics Engineers (IEEE). It is part of a series of wireless specifications developed by IEEE. It scores over wired LAN with mobility and ease of set-up. Products marked 'Wi-Fi Certified' (a registered trademark) by the Wi-Fi Alliance are interoperable with each other, even if they are from different manufacturers.

Wi-Fi Facts: 802.11 refers to a family of specifications developed by IEEE for wireless LAN. The several wireless specifications are mentioned below:

- 802.11: Applies to wireless LANs and pro-Vides 1 or 2 Mbps transmission in the 2.4 GHz , - d using either frequency - hopped spread spectrum (FHSS) or direct - sequence spread spectrum (DSSS).
 - 802.11a: An extension to 802.11 that applies to wreless LANs and works on the 5GHz frequency spectrum at a maximum data transfer rate of 54 Mbps.
 - 802.11b; Also referred to as 802 11 High Rate or Wi-Fi, it is an extension to 802.11in the 2.4 GHz band.
 - 802.11g: Offers wireless transmission over relatively short distances at up to 54 Mbps and operates in the 2.4 GHz range.

In India, only the 802.11b standard working on 2.4 GHz frequency range has been delicensed for indoor use. The SGHz spectrum has not been delicensed for use since it coincides with the spectrum used by the police department.

WIMAX

WiMax stands for 'worldwide inter-operability for microwave access.' The term 'WiMax' is the name created by the WiMax Forum to refer to its definition of 802.16. The WiMAX technology supports data-transmission rates of up to 70 Mbps with a range of up to 48 km, much farther than Wi-Fi. It ensures compatibility between different vendors' fixed-wireless broadband equipment to provide fast wireless data connections between fixed points over long distances. Laptops would incorporate WiMax by 2007.

WiMAX is the 802.16x specification for wireless metropolitan area network (WMAN), developed and promoted by the WiMAX Forum(comprising industry like Intel, Nokia and AT&T), to standardise it universally. The 802.16 specification is the designation offered by the IEEE, the de-facto body to authorise Wi-Fi standards globally. WiMAX will complement Wi-Fi.

The WiMAX signal could be sent as a broadband signal over a large area. The wireless signal would then be connected to a Wi-Fi box that would broadcast the signal to laptops and PDAs.

Bluetooth

Bluetooth technology is a cutting-edge open specification that enables short-range wireless connections between desktop and notebook computers, handhelds, personal digital assistants, mobile phones, camera phones, printers, digital cameras, headsets, keyboards and even a computer mouse. In a nutshell, Bluetooth technology unplugs your digital peripherals and makes cable clutter a thing of the past,

रहें। हे हो श्वापित

A blog is a web page made up of usually short, frequently updated posts that are arranged chronologically — like a what's new page or a journal. The content and purposes of blogs varies greatly — from links and commentary about other web sites, to news about a company/person/idea, to diaries, photos, poetry, mini-essays, project updates, even fiction.

Blog posts are like instant messages to the web. Many blogs are personal, "what's on my mind" type musings. Others are collaborative efforts based on a specific topic or area of mutual interest. Some blogs are for play. Some are for work. Some are both.

Blogs are also excellent team/department/company/family communication tools. They help small groups communicate in a way that is simpler and easier to follow than email or discussion forums. Use a private blog on an intranet to allow team members to post related links, files, quotes, or commentary. Set up a family blog where relatives can share personal news. A blog can help keep everyone in the loop, promote cohesiveness and group culture, and provide an informal "voice" of a project or department to outsiders

Types of blogs

There are various types of blogs, and each differs in the way content is delivered or written.

A blog can be defined by its incorporation of media: a blog comprising videos is called a vlog, one comprising links is called a linklog, or one comprising photos is called a photoblog.

Blogs can also be defined by which type of device is used to compose it. A blog written by a mobile device like a mobile phone or PDA is called a moblog.

A blog can also be defined by its genre. For example, if a blog is mainly about politics, it can be called a political blog. A blog about travel could be called a travel blog.

A blog can also be defined by the legal entity of its publishers. A blog can be private, as in most cases, or it can be for business purposes. Blogs, either used internally to enhance the communication and culture in a corporation or externally for marketing, branding or PR purposes are called corporate blogs.

A select list of weblog software:

User-hosted: Software packages installed by weblog authors to run on their own systems: b2evolution; bBlog; Blogsphere; blosxom; Community Server; Drupal; Greymatter; MvBlog; Movable Type (also offered in developer-hosted form as TypePad); Nucleus CMS; Radio UserLand; Roller Weblogger; Serendipity; Textpattern; WordPress (also offered in developer-hosted form as Wordpress. com)

Developer-hosted: Software services operated by the developer, requiring no software installation for the weblog author: Blogger; Blue Kaffee; Deadjournal; Greatestjournal; Livejournal; MSN Spaces; MySpace.com; Nexopia.com; Open Diary; Radio UserLand; Skyblog; TypePad, Wordpress.com; Xanga; Vox

Wirelass access

popular term for a high-frequency wireless local area network (WLAN) that is generically referred to as 802.11 network, more specifically the 802.11b nomencla-ture given by the institute of Electrical and Electronics Engineers (IEEE). It is part of a series of wireless specifications developed by IEEE. It scores over wired LAN with mobility and ease of set-up. Products marked Wi-Fi Certified' (a registered trademark)

turers.

Wi-Fi Facts: 802.11 refers to a family of specifications developed by IEEE for wireless LAN. The several wireless specifications are mentioned below:

by the Wi-Fi Alliance are interoperable with each

other, even if they are from different manufac-

- 802.11: Applies to wireless LANs and provides 1 or 2 Mbps transmission in the 2.4 GHz band using either frequency hopped spread spectrum (FHSS) or direct sequence spread spectrum (DSSS).
- 802.11a: An extension to 802.11 that applies to wireless LANs and works on the 5GHz frequency spectrum at a maximum data transfer rate of 54 Mbps.
- 802.11b: Also referred to as 802.11 High Rate or Wi-Fi, it is an extension to 802.11in the 2.4 GHz band.
- 802.11g: Offers wireless transmission over relatively short distances at up to 54 Mbps and operates in the 2.4 GHz range.

In India, only the 802.11b standard working on 2.4 GHz frequency range has been delicensed for indoor use. The 5GHz spectrum has not been delicensed for use since it coincides with the spectrum used by the police department.

WIMAX

WiMax stands for 'worldwide inter-operability for microwave access.' The term 'WiMax' is the name created by the WiMax Forum to refer to its definition of 802.16. The WiMAX technology supports data-transmission rates of up to 70 Mbps with a range of up to 48 km, much farther than Wi-Fi. It ensures compatibility between different vendors' fixed-wireless broadband equipment to provide fast wireless data connections between fixed points over long distances. Laptops would incorpo-

rate WiMax by 2007.

WiMAX is the 802.16x specification for wireless metropolitan area network (WMAN), developed and promoted by the WiMAX Forum(comprising industry like Intel, Nokia and AT&T), to standardise it universally. The 802.16 specification is the designation offered by the IEEE, the de-facto body to authorise Wi-Fi standards globally. WiMAX will complement Wi-Fi.

The WiMAX signal could be sent as a broadband signal over a large area. The wireless signal would then be connected to a Wi-Fi box that would broadcast the signal to laptops and PDAs.

Bluetooth

Bluetooth technology is a cutting-edge open specification that enables short-range wireless connections between desktop and notebook computers, handhelds, personal digital assistants, mobile phones, camera phones, printers, digital cameras, headsets, keyboards and even a computer mouse. In a nutshell, Bluetooth technology unplugs your digital peripherals and makes cable clutter a thing of the past.

रेसेतात है हो संग्रिप

short, frequently updated posts that are arranged chronologically - like a what's new page or a journal. The content and purposes of blogs varies greatly - from links and commentary about other web sites, to news about a company/person/idea, to diaries, photos, poetry, mini-essays, project updates, even fiction.

A blog is a web page made up of usually

web. Many blogs are personal, "what's on my mind" type musings. Others are collaborative efforts based on a specific topic or area of mutual interest. Some blogs are for play. Some are for work. Some are both.

Blog posts are like instant messages to the

Blogs are also excellent team/department/ company/family communication tools. They help small groups communicate in a way that is simpler and easier to follow than email or discussion forums. Use a private blog on an intranet to allow team members to post related links, files, quotes, or commentary. Set up a family blog where relatives can share personal news. A blog can help keep everyone in the loop, promote cohesiveness and group culture, and provide an informal "voice" of a project or department to

Types of blogs

outsiders.

There are various types of blogs, and each differs in the way content is delivered or written.

A blog can be defined by its incorporation of media: a blog comprising videos is called a vlog, one comprising links is called a linklog, or one comprising photos is called a photoblog.

Blogs can also be defined by which type of device is used to compose it. A blog written by a mobile device like a mobile phone or PDA is called a moblog.

A blog can also be defined by its genre. For example, if a blog is mainly about politics, it can be called a political blog. A blog about travel could be called a travel blog.

A blog can also be defined by the legal entity of its publishers. A blog can be private, as in most cases, or it can be for business purposes. Blogs, either used internally to enhance the communication and culture in a corporation or externally for marketing, branding or PR purposes are called corporate blogs.

A select list of weblog software:

User-hosted: Software packages installed by weblog authors to run on their own systems: b2evolution; bBlog; Blogsphere; blosxom; Community Server; Drupal; Greymatter; MvBlog; Movable Type (also offered in developer-hosted form as TypePad); Nucleus CMS; Radio UserLand; Roller Weblogger; Serendipity; Textpattern; WordPress (also offered in developer-hosted form as Wordpress. com)

Developer-hosted: Software services operated by the developer, requiring no software installation for the weblog author: Blogger: Blue Kaffee: Deadlournal; Greatestjournal; Livejournal; MSN Spaces; MySpace.com; Nexopia.com; Open Diary; Radio UserLand; Skyblog; TypePad; Wordpress.com; Xanga; Vox

क्रिक्ट्रामुह्माति है। विकास स्थापक में किल्ला है। विकास स्थापक स्यापक स्थापक स्यापक स्थापक स

obile phones have long outgrown their original purpose of enabling people to talk to each other on the move. They are now multimedia devices which could, in the near future, replace a variety of items like game consoles, messaging terminals, music players, digital cameras, security badges, credit cards, digital diaries, health monitors, alarm clocks, navigation guides, interactive newspapers or even TV.

The good news is that you are not at risk if you have a cell phone that enables you merely to talk and SMS. The problems begin if the phone is enabled to handle data and or has Bluetooth capability.

A cell phone virus is quite like a computer virus. Once you receive and install the virus, it starts looking for other Bluetooth phones to infect.

What virus does? The virus sends infected MMS messages to every phone number in your address list. Since sending MMS messages is not free, you're actually paying money to send a virus to your friends, family members and business associates. The virus can tamper or delete all the contact details and calendar entries in the phone; delete or lock up certain phone applications or crash: show up as games, pornographic material or free downloads; a text messages camouflaged with a stolen the subject line from a friends' message, etc. In all these transfer methods, the user installs it knowingly or otherwise. But clever virus writers have the knack of getting you to open and install the bug by disguising it as a desirable application. Mobile viruses can cause trouble as well as financial losses.

Contact the handset company's toll-free number for any support which provides adequate information and assistance to debug your phone yourself.

Dos and Don'ts: * Enable Bluetooth only when you need it. * Learn to say 'No': li your Bluetooth is on accept only a file that you are expecting. Never accept ar unknown file. * Avoid downloading unscanned material from sharing networks. like games, ring tones and other programs from legal or official websites. * Never instal any application you are not sure of.

Bluery will DVD

A Blu-ray Disc (BD) and HD DVD are next-generation optical disc formats meant for high-density storage of high-definition video and data. The Blu-ray Disc Association's Blu-ray technology is spearheaded by Sony. As of 2006, Blu-ray has information capacity per layer of 25GB. HD DVD is the primary rival to Blu-ray, championed by Toshiba, NEC Corporation, Microsoft, and Intel. HD-DVD has a disc capacity of 30GB.

All movies currently released (as of 2006) have been done on single-layer discs. The goal is to reach the standard of 50GB+ dual-layer discs capable of storing four hours of high-definition MPEG-2 video content--similar to the four hours of high-definition video content. Initially it may be more expensive

to produce.

SAIENGE SGIENGE

PART

चुरानगरन चुर्ह्या

Indian Stealth Technology

India could soon be the third country in the world, after the US and France, to have a stealth bomber fighter aircraft in its armoury. The Kolkata-based Indian

Association for Cultivation of Science (IACS)

has developed a technology to convert ordinary light combat aircraft into stealth iets that would go undetected on radar.

technology uses a special material to construct a shield on the plexiglass canopies. It is the glass cover of the cockpit that usually betrays the presence of an aircraft as it reflects the laser beam that is emitted to

catch them on the radar. The shield will

cover the cockpit and deflect the laser beam

on the shield in all directions. This will make

According to IACS scientists, the

sure the aircraft remains undetected on the radar and even to AWACS. IACS' efforts will give a big boost to India's indigenisation

Last year of the Aibo

efforts.

Sad news for robot lovers! Sony's Aibo Entertainment Robot, the doglike machine which walks, barks and recognises speech, is being put to sleep.

company is stopping manufacturing in a bid to improve its financial position. Though not popular in India, the Aibo gained a cult-like following all around the world in a short time. The robot dog could bark, push a ball, lift its leg, and "learn," becoming more adept at behaviour over time. With a vocabulary of 1,000 words and an ability to understand

more than 100 words, including some in

The Aibo was introduced in 1999 and the

Spanish, the Aibo was fitted with a video camera in its head through which images were wirelessly relayed to a laptop. This meant owners could actually see the world from a dog's viewpoint. The only prohibitive thing about the Aibo has been its price as it costs about \$2,000 (Rs 90,000). There are 150,000 Aibo owners worldwide.

No cancer from cellphone

A four-year survey conducted by the scientists at the Institute of Cancer Research in London and 3British universities has found no co-relation between mobile phone usage and glioma cancer. Using a mobile phone does not aggravate the risk of developing this most common type of brain tumour. In 2005, Swedish scientists had reported that cellphones could pose a higher health risk to people living in rural areas. The UK researchers contradict the Swedish findings.

Global Biodiversity Outlook 2 Over the past few decades, human activ-

unprecedented way. There is no satisfactory measures to check or reverse it. The latest trend has been brought out by the Global Biodiversity Outlook 2 report of the United Nations Convention on Biological Diversity. The fact that extinction rates for species are shooting up by as much as 1,000 times the background rates, and that 12-52% of species belonging to certain higher groups face the threat of extinction, highlights the role of human activities in the destruction of biodiversity. Also, the ability of biological

ity in the name of development has ad-

versely affected global biodiversity in an

resources to renew themselves to match human demand for resources has been reduced by 20%. If the current extinction rates continue, planet earth will witness the first mass extinction induced by human activity. Against this backdrop, the Convention on Biological Diversity, a global treaty created in 1992 and strengthened by the Conference of Parties in 2002, set 2010 as the target to achieve significant reduction in the current rate of biodiversity loss at all levels. According to the report, the success achieved is far from satisfactory.

Metamaterial

A group of researchers from Britain and US are designing the blueprint of a manmade material, called metamaterial, which they think will be able to bend ray of light so that it does not reflect or cast shadows.

Metamaterial in electromagnetism parlance refers to a special type of material which is generally used in the field of optics and whose properties are not found in natural substances. The first product launched in 2007 will be very thick which people would rather call a shield than a cloak.

John Pendry and his team, Imperial College, London, have created a cloak out of the material. When worn, the cloak will bend light just the way boulder bends a river stream. Another advantage is that the material could be specially tuned to bend electromagnetic radiation like radio waves and visible light or even masking microwaves. The research has numerous military applications.

Climate Change and Algae

It is believed that the nature has the best sensors to detect climate change. Algae is said to be one. All algae use carbon dioxide but, while some lock up this gas in their calcified skeletons, others do not do so. Other groups of algae produce compounds such as dimethyl sulphonioproprionate that can become climatically active. To understand this one need to be able to differentiate the algal types and count them using equipment that is precise and cheap enough that very many can be used. To that end Southampton University, Southern England, and the School of Electronics & Computer Science are developing a sensor which, when dropped into the sea, can record information about the types and quantities of algae present. This provides vital information for specialists in climate change. Algae flow through the device one at a time and at high speed. When the device shines light at the algae, they respond by emitting light at different wavelengths, allowing them to be characterised. The device records data about such properties of algae which tell us about the size of particles and the types of membranes. Algae are now known to influence the climate in various ways. Much of the existing progress made by oceanographers has been based on studying satellite images in colour. The sea can have many different colours and what one sees depends not only on weather and light conditions but also on what plant life the water contains. Colour measurements have become an important tool for studying plant life in the ocean. Calculating chlorophyll from measurements of water colour, is one of the successes of optical oceanography.

New seabed gas source

According to a joint research team from Tokyo University and the Japan Agency for Marine-Earth Science and Technology, a 100 meter-long column of "flammable ice" exists beneath the seabed of the Sea of Japan off Joetsu, Niigata Prefecture.

Flammable ice is methane hydrate, composed of methane and water. Part of the column is exposed, and judging from its size, the team believes there is a large natural gas field under the seabed. Methane hydrates are available on the seabed in the Gulf of Mexico, off Vancouver, and other places in the world. This is the first discovery of the substance near Japan.

Methane hydrate is created when molecules of flammable methane, the main component of natural gas, are confined in lattice like structures composed of water molecules. As per estimation, there is sufficient flammable ice under the seabed in areas surrounding Japan to supply Japan for 100 years, based on current gas consumption levels. Because of this, methane hydrate is drawing attention as a new natural resource.

X-Ray alternative

How many times have you heard about the negative effects of X-ray radiation on health? Even though the bad effects of radiation has not been conclusively proved, there is an alternative in sight. The terahertz laser! It works like an X-ray by casting through thin layers and identifying what is beneath without putting anyone's health at risk. Currently researchers like Prof. Malcolm Dunn of St. Andrews University, is using less powerful infrared laser integrated with lithium niobate, a material used for optical devices to generate terahertz pulses. Though the terahertz beam is invisible, it can be bounced off gold plated metal mirrors to help in focusing the tuning. The advantages are that the intensity of terahertz radiation is less than that of 1/1000th of a mobile phone; an active terahertz investigation would get one exposed to lesser amount of terahertz radiation as compared to radiation effects from lighting, in the area of dentistry for imaging teeth, security screening and screening of electronics for non-destructive imaging of integrated circuit.

SASER Lasers, after 40 years of its developme

dollar technology. Now it is the turn light. SASER or sound amplification stimulated emission of radiation, a coherent beams of sound that a composed of packets of sonic vibration called 'phonoms.' The Saser, developed Dr. Glavin, Dr. Kent and their colleagues constructed from thin layers semiconductors, an arrangement called superlattice. This lattice consists of shee a few atoms thick serving as electron-tra The Sasers are just like excited photons laser. In that excited state, when mo electrons are added by electrically chargi the lattice, phonons beget more phonon bouncing back and forth between layer of lattice till they flow-out as phon beams.

and improvisation, are now multi-billio

Last Human Chromosome sequence Scientists have reached a landmark point one of the most important scienti

projects by sequencing the last chromosor in the Human Genome, the so called " bo of life." The project was started in 1990 identify the genes and DNA sequences the provide a blueprint for human beings. T human genome has an estimated 20,000 25,000 genes. Chromosome 1 is the bigg and contains, per chromosome, the great number of genes. Chromosome 1 conta nearly twice as many genes as the avera chromosome and makes up 8% of t human genetic code. It is packed w 3,141 genes and linked to 350 illness including cancer, Alzheimer's and Park son's disease. The sequencing of the l chromosome, in fact, closes the book

an important volume of Human Genor

Project at Sanger Institute in England. T

project was headed by Dr. Simon Grego

Duke University, USA.

Researchers around the world will be able to extract vital information needed for treating cancer, autism, mental disorder, and other illnesses.

The Next Generation Tyres

Radical new tyre design by Michelin was

displayeded at the 2006 Philadelphia car show. These tyres are airless - without inflated tube. The flexible rims with special ribs support the wheels. In future no one would require repair kits, no more air valves, and no more air compressors at fuel stations.

पूर्वा गणने शुत्रां सूच्या

Food is the chief of essential materials which the body needs for its well-being. These essential materials are called 'nutrients'. Good food is indispensable for health at all stages of life and for satisfactory growth during infancy, childhood, adolescence and adulthood. Wholesome food in adequate

severe nutritional stress.

Balanced diet In order to obtain adequate amounts of each of the different nutrients, the daily diet should include appropriate quan-

quantities is no less important for pregnant

and nursing women since they undergo a

tities of a variety of different foodstuff. A diet in which various foodstuff are mixed in suitable proportions to carry out adequately.

Eating habits have changed with the times. The changes are faster now. The latest is 'fast food' for a fast life. Human diet is not restricted to any special category of food. Whereas most animals stick to a routine menu, man can and does eat a variety of foods, of both plant and animal origin. Variety is, for him, the spice of life, more so in foods than in

vides us with all the nutrients that we need.

Cereals, like rice or wheat which form the staple food of manking, supply us only with a

anything else. This natural desire for variety is

justified by the fact that no single food pro-

fraction of our nutritional requirements. We have to supplement cereals with other foods that provide plenty of fats and proteins and minor quantities of a number of vitamins and minerals.

A balanced diet simply means a diet that will supply all the nutrients necessary for the growth and development of the body. In India, a balanced diet has become an imperative since most Indians consume foods that provide more carbohydrates and fats than proteins.

Balanced Diet

Food	Food	Amoun
Group	Stuff	per day (g)
1	Rice, wheat and millets	350
	Oil, ghee, butter etc.	35
	Sugar and Jaggery	40
11	Milk, curds etc.	225
	Pulses, dried beans, nuts	45
	Meat, fish, egg	60
111	Fruits	30
	Green leafy vegetables	150
	Other vegetables	125

The table above gives the amounts of the various foods that will make up a balanced diet for the average Indian. The quantity of food varies according to age and the type of work.

Classification of nutrients: (In foodstuffs): (1) Carbohydrates, (2) Fats, (3) Proteins, (4) Minerals, (5) Vitamins and (6) Water.

Proteins, fats and carbohydrates are called Macro Nutrients.

Proteins (Greek: 'Proteios' meaning first) are the chief substances of the cells of the body. They form important constituents of muscles and other tissues and vital fluids like blood. Enzymes, which assist in the digestion of food, and antibodies which are the body defences against infections are also mainly protein in nature.

The nutritive value of protein depends on the essential amino acid composition. Amino acids are the building blocks of tissue protein. There are some 20 amino acids commonly found in dietary proteins. Of these, 10 amino acids can be synthesised by the body itself, whether by mutual conversion among amino acids or from nonprotein sources. But 10 amino acids cannot be so synthesised and have to be supplied through diet. These are called essential amino acids. Adults require 8 essential amino acids while children require 9 or 10;

Fat is a necessary ingredient in diet. It is a concentrated source of energy and supplies per unit weight more than double the energy furnished by either protein or carbohydrates. Some fats, especially vegetable oils, provide what are called essential fatty acids, linoleic and arachidonic acids, to the body.

Fats that circulate in the blood are of many types-triglycerides, phospholipids, etc. The quantity and quality of fat consumed affects the level of cholesterol in the blood. Some fats like groundnut oil, sesame oil or sunflower oil which contain a high proportion of polyunsaturated fatty acids do not increase blood cholesterol levels greatly. Others like butter, ghee and hydrogenated vegetable oils (vanaspati) contain high proportions of saturated fatty acids and greatly increase cholesterol levels. It is also found that consumption of smaller amounts of fat at differ-



ent times causes less increase of cholesterol than a large amount of fat taken at a time.

Carbohydrates include every kind of starch and sugar. Grain foods are largely composed of starch and foodstuffs like cane sugar and glucose are pure carbohydrates. They form the main source of energy for the bo-dy. Being a cheap source of ener-gy, carbohydrates form the bulk of Indi-an diet.

Vitamins and minerals comprise micro nutrients as distinguished from proteins, fats and carbohydrates-called macro nutrients.

Vitamins can be broadly divided into fatsoluble and water-soluble vitamins. Vitamin A, D, E and K are fat-soluble vitamins. Vitamin C and B (including Vitamins B, B, and other B-Group vitamins) are water-soluble.

The vitamins are necessary auxiliaries in metabolism. They combine with specific proteins, as parts of the various oxidative enzyme systems which are concerned with the breakdown of carbohydrates, proteins and fat in the body. Thus, they are intimately involved in the mechanism which releases energy, carbon dioxide and water as the end products of metabolism. Vitamin types, name and years of discovery are as follows:

Fat soluble

Vitamin A (Retinol) (1913) • Action: Right vision, epithelial function, antioxidant • Defiency: Night blindness, poor growth, rough y skin and less resistance to infection, (xephthalmia, perifollicular, hyperkeratosis) • verdosage: Raised intracranial pressure, liver amage, skin changes • Daily dosage: 1 mg; ources: Animal foods -liver, fish, egg yolk, ilk, ghee, cheese, butter and as carotene in ark green leafy vegetables carrot, pumpkin, apaya, mangoes, Red palm oil.

Vitamin D (1925) • Action: VitaminD, alcium, VitaminD, Metabolism • De ficiency ickets in children, osteomalacia and osteoprosis in ad-ults • Ov-erdosage: Hypercalcaenia • Daily dosage: 3mcg; Sources: Exposure o sun light, milk, butter, cheese, egg yolk, sh liver oils.

Vitamin E (Tocopherols) (1936) • Action: led cell function, antioxidant • Deficiency: Aild haemolytic neuropathy in children, hought to interfere with reproduction, liver lamage, abortion, haemorrhage • Daily dosage: 10mg; Sources: All vegetable oils, wheatgerm, egg yolk, butter, peas.

Vitamin K (1935) • Action: Synthesis of clotting factors (II, VII, IX,X) • Deficiency: Bleeding, liver damage, increased tendency to haemorrhage • Daily dosage: 100mcg; Sources: Green leafy vegetables, liver, pulses, also synthesised by colonic bacteria.

Water Soluble

Vitamin B, (Thiamine) (1936) • Action: Carbohydrate metabolism • Deficiency: Beriberi, peripheral neuropathy, Wernicke-Korsakoff syndrome • Daily dosage: 1mg; Sources: Cereals, sprouts, green leafy vegetables, liver, pork, legumes.

Vitamin B, (Riboflavin) (1935) • Action: Cellular oxidation • Deficiency: Angular stomatitis, cheilosis • Daily dosage: 1.5mg; Sources: Liver, meat, eggs, kidney, milk and other dairy products, green leafy vegetables, sprouted cereals and pulses.

Nicotinic Acid / Nicotinamide • Action: Cellular oxidation decarboxylation • Deficiency: Pellagra • Overdosage: Flushing • Daily dosage: 15-20mg; Sources: Liver, pulses, whole cereals, fish, meat, milk, eggs, groundnut, coffee.

Vitamin B, Pyridoxine (1934) • Action: Transamination • Deficiency: Peripheral neuropathy • Daily dosage: 3mg; Sources: Yeast, liver, meat, whole grain, cereals, groundnuts, banana, legumes.

Folic-acid (Folate) • Action: Haemopoiesis Deficiency: Megaloblasticanaemia
 Daily dosage: 200mcg; Sources: Yeast, liver, nuts, green vegetables, chocolate.

Vitamin B₁₂ (Corbalamin) (1948) • Action: Haemopoiesis • Deficiency: Megaloblastic anaemia subacute combined degeneration of the spinal cord • Daily dosage: 3mcg; Sources: Meat, liver, egg, diary products, yeast.

Vitamin C (Ascorbic) (1919) • Action: Collagen synthesis antioxidant • Deficiency: Scurvy, sore mouth and gums, delayed healing, capillary bleeding . Overdosage: Raised urinary oxalate and urate • Daily dosage: 30-60mg; Sources: Citrus fruits, green leafy vegetables, germinated pulses.

Vitamin P is found in all sources of Vitamin C like orange, lemons, etc.

Other vitamins in the B complex include: Nicotinic acid, Pantothenic acid, Folic acid, Biotin, Lipoic acid, Choline and Inositol

A large number of minerals are present in the body and perform a variety of functions. Minerals account for about 4 % of the body weight. Calcium and phosphorus form about three-fourths of the mineral elements. Five other minerals-potassium, sulphur, sodium, chlorine and magnesium-account for most of the rest. Many elements are present in such minute quantities that they are called trace elements or micro-nutrients.

Water is a vital constituent of diet. An average man contains about 45 litres of water (70 % of the body weight). The cells contains 30 litres. Three litres are in the plasma of the blood, where the suspended cells make a

total volume of blood up to 5 litres. The remaining 12 litres (45–33) fill the space between groups of cells. This tissue fluid bathes all the cells of the body. Water is absolutely necessary for digestion and absorption of the foods taken in. It is the great solvent and neutraliser in the body. It is the substance in which bodily chemical reactions take place. Water is the carrier or transporting medium for all nutrients and body substances. It regulates body temperature, keeps skin fresh, and acts as great purifying agent in the

body tissues and fluids.

Acidosis, alkalosis and dehydration, pedema, fever, shock, uraemia and constipation are some of the clinical signs of inadequate salt and water in the body.

body that removes waste materials in the

form of tear, perspiration, urine and faeces.

Watery substances act as lubricants in the

body, especially in the joints. It is a part of all

The body obtains water mainly from the fluids we drink, from the solids we eat and also from the oxidation of energy foods. Fats and carbohydrates are oxidised in the body to carbon dioxide and water.

Cereals like rice, wheat and millets, ragi, cholam and bajra form the main food in India. Cereals are rich in carbohydrates. They generally contain 6 to 12% protein, but these proteins are usually deficient in the essential amino acid lysine. Rice protein, however, is richer in lysine than other cereals. Most cereal grains are poor in mineral content and rice is especially poor. Ragi is, however, rich in minerals, especially in calcium, and bajra in iron. Whole cereal grains are important sources of 8-vitamins but in milling, rice loses the outer layers containing thiamine. Parboiled rice, even when milled, does not lose its thiamine content. Except yellow maize, which contains some amounts of carotene, no other

cereal grain is a source of vitamin A or C.

Pulses or legumes as they are called, are rich
in proteins. Pulse proteins are of relatively low

biological value because of the deficiency of the essential amino acid methionine but the are rich in lysine. Pulses are not rich sources of minerals but they are rich in B-vitamins. Drie pulses do not contain vitamin C but if they are germinated significant amounts of vitamin

are generated. Most of the green leafy vec etables are rich sources of calcium, iron, carc

tene, vitamin C, riboflavin and folic acid.

Fibre: The portion of plant foods that or bodies cannot digest is known as fibre. Ther are 2 basic types: insoluble (roughage) an soluble. Insoluble fibres help move food ma terials through the digestive tract while soluble tend to slow them down. Both type absord water, thus prevent and treat constipation be softening and increasing bulk of the undigested food components passing through the digestive tract. Soluble fibres are reported to be helpful in reducing blood cholesterol Fibre is recommended for all age groups men 40-50 gms/day, women 25, and old 20 30. Source: beans, bran, fruits, whole grain and vegetables.

drates. But roots like carrot are also rich ir carotene (Vitamin A); Those like potato contain significant amounts of vitamin C, while roots like tapioca contain calcium also. Other vegetables are those which do not fall into the category of leafy vegetables or root vegetables. These vegetables are shoots, like lady's finger, cucumber, tomato, bitter gourd, snake gourd, brinjal, etc. They are fairly good sources

Roots and tubers: are rich in carbohy-

Nuts and oil seeds are good sources of fat (oil), protein and minerals and fair sources of vitamins: e.g. groundnut and cashewnut.

of vitamins and minerals.

Fruits in general are rich in vitamin C, such as gooseberry, guava and citrus fruits. Yellow fruits like mango and papaya contain carotene and dried fruits like dates are sources of iron.

Fish and sea foods are rich sources of protein, B-vitamins and minerals, esp. calcium. Fleshy foods are rich sources of protein

and B-vitamins, especially B₁₂. They are generally deficient in vitamin A, but liver is an exception.

Egg is a rich source of all nutrients except vitamin C. Its protein is of high quality.

Milk and Milk products. Milk is an ideal food for infants and young children and a good supplementary food for all. It contains all vital nutrients, except vitamin C and iron.

Food is the only source of energy for humans. Our dietary sheet must change accordingly to our requirements of energy and meals planned. Food energy is measured in terms of heat units called calories. A physiological calorie, also called large calorie or

kilocalorie (abbreviated as Kcal), is the amount of heat necessary to raise the temperature of one kilogram of water by one degree centigrade. One gram of protein or carbohydrate yields 4 calories. One gram of fat yields 9 calories while the same quantity of alcohol yields 7calories.

Foodstuff by category

Food Group-1: (a) CEREALS (b) STARCHY VEGETABLES (c) FATS AND OILS (d) SUGAR: jaggery, cane-sugar etc.

Food Group-2: (a) MILK (b) PULSES
Food Group-3: (a) FRUITS (b) Green LEAFY
VEGETABLES (c) Other VEGETABLES

Eat less, ive longer.

Dieting may not actually make you live longer, but it surely makes you feel that way. Nevertheless. evidence been accumulating since the 1930s that calorie restriction—reducing an animal's energy intake below its energy expenditure—extends lifespan and delays the onset of age-related diseases in rats, dogs, fish and monkeys. Such results have inspired thousands of people to put up with constant hunger in the hope of living longer, healthier lives. They have also led to a search for drugs that mimic the effects of calorie restriction without the pain of going on an actual diet.

It is easy, amidst the hype, to forget that no one has until now shown that calorie restriction works in humans. That omission, however, changed with the publication of the initial results of the first systematic investigation into the matter. This study, known as CALERIE (Comprehensive Assessment of Long-term Effects of Reducing Intake of Energy), sponsored by America's National Institutes of Health, took 48 men and women aged between 25 and 50 and assigned them randomly to either a control

group or a calorie-restriction regime. Those in the second group were required to cut their calorie intake for six months to 75% of that needed to maintain their weight. The CALERIE study is a landmark in the history of the field, because its subjects were either of normal weight or only slightly overweight. At a molecular level, CALERIE suggests these advantages are real. They showed drops in body temperature and blood-insulin levels—both phenomena that have been seen in long-lived, calorie-restricted animals. They also suffered less oxidative damage to their DNA.

The search for a drug that will stave offold age is itself very old. Scientists are trying to find a drug that will mimick the effect of calorie restriction. There is a family of enzymes called sintuins, which act both as sensors of nutrient availability and as regulators of metabolic rate. These might provide the necessary biochemical link between starving and living longer. Some plant-derived molecules are known to activate sintuins in yeast. One of these molecules, recreated, has increased the maximum lifespan of a small fish by 60%. However, some of these molecules are already in clinical trials for safety.

चीरवेपिक रहारिष्टा स्थितिहरू

esearch has now proved that oxidation has now proved that oxidation has now process by which we are continuously burning our calories to get energy) releases dangerous, very active molecules known as free radicals. These free radicals attack neighbouring cells (the cell walls, and genetic material-DNA, within the cells) and over a long time period, can cause irreversible damage like mutation and sometimes cause disease like cancer. Generally it manifests old age symptoms like lack of energy, poor memory, loss of hearing and falling hair, which are definitely associated with damaged or weak cells. Free radicals, in alcoholics, cause alcoholinduced liver damage, perhaps more than alcoholitself. Free radicals in cigarette smoke have been implicated in inactivation of alpha-1 antitrypsin in the lung, which promotes the development of emphysema and it is now proved that these free radicals are the main culprit. While nature has created this problem, it has provided the solution as well.

The presence of compounds, called Antioxidants, in the system can "mop up" free radicals before they damage other essential molecules. An antioxidant is a chemical that prevents the oxidation of other chemicals. Consuming more antioxidants helps provide the body with tools to neutralise harmful free radicals. It's estimated that there are more than 4,000 compounds in foods that act as antioxidants. The most studied include vitamins C and E. betacarotene and the mineral selenium. Besides antioxidants, there are several enzyme systems within the body that scavenge free radicals, Additionally, selenium, a trace metal that is required for proper function of one of the body's antioxidant enzyme systems, is sometimes included in this

category. The body cannot manufacture these micronutrients so they must be supplied in the diet. The following vitamins have shown positive antioxidants effects: Vitamin Aor Retinol, or beta-carotene found in carrots, squash, sweet potatoes, tomatoes, peaches and apricots are particularly rich sources of beta-carotene: Vitamin C also called ascorbic acid found in citrus fruits, green peppers, green leafy vegetables, strawberries, raw cabbage, tomatoes and potatoes; Vitamin E is found in wheat germ, nuts, seeds, whole grains, green leafy vegetables, vegetable oil and fish-liver oil; and selenium found in fish, shellfish, red meat, grains, eggs, chicken and garlic, Vegetables can also be a good source if grown in selenium-rich soils.

Natural Sources of Antioxidants

The colourful stuff: carrots, apples, oranges, tomatoes (cooked), beet root, brinjal, dark green vegetables, olives, strawberries, honey (the darker the better) and so on.

The tasty stuff: garlic, ginger, onion, nutmeg.

The smelly stuff: Tea, green tea, spinach, tulsi and other herbs etc. Usually, the body's natural defence systems neutralise free radicals that develop, rendering them harmless. However, environmental assaults on the body, like UV-radiation, pollutants and alcohol; can overpower the body's ability to neutralise free radicals, damage the structure and function of the body's cells. There is good evidence that this damage contributes to aging and leads to a host of illnesses, including cancer, arthritis, and heart disease. A regular exercise and eating more fruits or vegetables will vitalise inherent antioxidant systems and that your diet is providing the necessary components.

नीपात्रका उठवेर

The human body is a very complicated system consisting of millions of cells-organised uniquely and functioning dynamically together. The complexities can be better understood when it is highlighted. Anatomists find it useful to divide the human body into eight systems: the skeleton, the muscles, the circulatory and respiratory systems, the digestive system, the urinary system, the glandular system, the nervous system, and the skin.

Body Statistics

The body: has about 6.096 metres of small intestine and six of large, with a surface area of more than 9.29 sqm, or five times the area of the body's skin. The intestines process, at about 2.54 cm per minute, 40.64 metric tonnes of food over the course of 70 years.

Skin: 2.72 kg of skin cover the 1.85 sq.m of surface on an average adult.

DNA: Deoxyribonucleic acid, a nucleic acid, is the vital constituent of chromosomes, responsible for transmitting genetic information, in the form of genes, from parents to offsprings. Each human cell contains about 2 metres of DNA supercoiled on itself such that it fits within the cell nucleus less than 10 micrometers. DNA comprise 4 bases adenine-A, guanine-G, thymine-T, and cytosine-C, a sugar and phosphoric acid, organised in a double helix format. Within this format, A pairs only with T, and G only with C.

Bones in the body: Babies are born with over 300 bones. Many of them fuse together as we grow up - and we end up with about 206. The longest bone: The 'femur' or the thigh bone (1/4 of your height). The smallest

bone: The stapes or the stirrup-bone in the middle ear - few milimetres. The strongest bone: The shir bone, which connects the knee to the ankle. It can support 1,600 kg. More than half of an adult's 206 bones are in the hands and feet. There are 27 bones in each hand and 26 in each foot-for a total of 106.

Composition of Bones: Organic Matter 33.30%; Phosphate of Lime 51.04%; Carbonate of Lime 1130%; Flouride of Calcium 2.00%; Phosphate of Magnesia 1.16%; Soda/Chloride of Sodium 1.00%.

Human Brain: Consists of two parts: the brain located in the skull and the spinal cord located in the vertebral column.

Central Nervous System: The brain along with spinal cord constitutes the Nervous system. The brain consists of

(i) Cerebrum: The largest part of the brain consisting of two hemispheres which control voluntary actions and are the seat of intelligence, memory association, imagination and will. (ii) Cerebellum: The large mass having ridges and furrows attached to, cerebrum, which regulates muscular movement of locomotion. (iii) Medula Oblongata: The lowermost part of the brain which continues as the spinal cord in the vertebral columns. It controls involuntary actions.

The weight of the average human brain triples between birth and adulthood. The final weight of the brain in an adult male is about 1.4 kg (and 1.3 kg in the case of a woman) which averages about 3% of the body weight.

The brain uses about 20% of the oxygen a man breathes, 20% of calories a man takes in, and about 15% of body blood.

The brain stores information equal to 500,000 sets of the Encyclopedia Britannica. Given its compact size, efficient power con-

sumption (equivalent to a 20-watt lightbulb) and massive storage capacity (100 trillion bits of information) it can work better than any computer. At a time our brain can retain 7 facts in the short-term memory. Neurons are the longest cells in our body- measures 1.2m long. Fully formed human brain contains 100 billion neurons, or nerve cells. When neuron

fires off a message, it is received in one of the thousands of receptor sites in another neuron, which stops it or sends it on.Brain makes up only 2% of the body weight but uses 20% of the oxygen and blood supply.

as rapidly as 360 km per hour. The fastest nerve impulse travels at 532 Kmph. The heart 27949.3 litres of blood are pumped

Nerves 72,418km of nerves send impulses

through 99,776.6 km of blood vessels in a day. The hollow muscle pumps enough blood in an average lifetime to fill the fuel tanks of 56 moon rockets. Unlike other muscles, its contractions are involuntary, beginning 4 weeks after conception, before nerve cells are formed. and continue to pulse even out of body in saline solution. Muscle cells called myocytes generate a total electrical current of about 2 watts that commands the fibres to contract. Shortly after birth, those cells stop dividing.

The Blood There are about 96,000 km of blood vessels in our body. The Blood comprise Plasma, RBC (red blood cells/erythrocytes), WBC (white Blood Cells/leukocytes) and Platelets (Thrombocytes).

Plasma is made up of 90% water, 7% proteins, and others like nutrients, salts, nitrogen waste, carbon-dioxide and hormones.

8,000,000 RBCs are produced in the bone marrow every second constituting 54% of hemoglobin and their count ranges between 4-6 million per cu mm.

WBC count normally ranges between 4,500 to 11,000 per cu mm

Platelets also normally count between 15,000 and 300,000 per cu mm

The lungs Man breaths 13- 17 times a minute at rest and 80 during exercise. On an average we breath 21600 times a day. We take in 295.261m litres in an average life span. The shock of birth causes the first breath. Muscle contract, opening the chest and lowering interior air pressure. The baby's mouth opens in protest, air rushes in, and the newborn begins to inhale about 60 times a minute, beginning the cycle of strife and breath. The adult human lungs have an internal area of 93 m², which is 40 times the external surface of the human body.

The liver Among some 1000 widely divergent functions, the liver regulates hormonal balance, cholesterol, blood clotting and poisons. The liver is the only organ that can regenerate; if as much as two thirds is removed, a whole liver can grow back.

The alimentary system is a 9.14 metre-long tube from mouth to anus that breaks down food into particles tiny enough to pass from intestines into the bloodstream. The nutrients are then routed to the largest gland in the body, the 1.36 kg liver, to be refined into chemical and warehoused until demand soars. Large intestine = 1.524m Small Intestine = 7.5m

Stomach: produces 2 litres of hydrochloric acid daily. 500,000 cells of stomach's inner walls are replaced every minute so that the acid does not damage the walls.

Muscles: There are 639 muscles which also account for 40% of the total body weight. The total number of muscles in the body: over 630. It takes 17 muscles to smile and 42 to stare. Largest muscle: The gluetus maximus or the buttock muscle. The smallest muscle: The stapadius muscle which controls the stapes.

The reproductive organs: A man's testes manufacture more sperm per second (about 2000) than a woman's ovaries produce eggs in a life time (about 400).

pipe (trachea) and two tubes called bronchi, to the lungs. Oxygen from the air is taken in by tiny blood vessels in the lungs. The blood then carries oxygen to the cells of the body.

Skeletal System: The skeletal system is made up of bones that hold your body upright. Some bones protect organs, like the ribs that cover the lungs.

Muscular System: Muscles are made up of elastic fibres. There are 3 types of muscle: skeletal, smooth and cardiac. The skeletal muscles help the body move. They are large muscles visible to our eyes. Smooth muscles are found in our digestive system, blood vessels, and air passages. Cardiac muscle is found only in our heart. Smooth and Cardiac muscles are involuntary muscles - they do their job without us having to think about them.

Reproductive System: Through the reproductive system, adult human beings procreate. Reproduction begins when sperm cell from man fertilises an egg cell from a woman.

Urinary System: This system includes kidneys, which cleans waste from the blood and regulates the water in the body.

Immune System: The Immune System protects our body from diseases by fighting against certain substances that come from outside, or antigens. This happens in different ways. For example, WBC called B lymphocytes learn to fight certain viruses and bacteria by producing antibodies, which spread around the body to attack them. Sometimes , as in allergies, the immune system makes a mistake and creates antibodies to fight a substance that's really harmless.

manufacture some liquid products which are

Glands of the Human Body Glands are organs of the human body that

secreted from the cells. There are two types of glands: (i) Ducted Glands Ducted glands secrete their product through well-defined ducts, e.g., Liver—secretes bile in the stomach; Lachrymal—secretes tears in the eyes; Salivary—secretes saliva in the mouth; Sweat glands in the skin—secretes sweat. (ii) Ductless Glands Also called endocrine glands or internally secreting glands. They secrete hormones directly into the blood-stream in response to brain's instructions. Ductless glands

hood it plays some part in building resistance to diseases and physical development; Thyroid: Regulates metabolism

Prostrate: Regulates blood pressure and sexual potency; Gonads: Relates to reproductive system and secretes sex hormones; Adrenal: Causes acceleration of the breath, heightens emotion and a sudden increase in

and their functions: Thymus: In early child-

Adrenal: Causes acceleration of the breath, heightens emotion and a sudden increase in physical strength during fear or anger; Pancreas: Aids in digestion of proteins, carbohydrates and fats; it secretes insulin and deficiency of insulin causes diabetes; Pituitary: Called the master gland as it controls the other ductless glands and influences growth and metabolism.

Reselvances in the state of the

We are health conscious but poor in keeping with time. Grab a pack of packaged ready-to-eat fruit and your body will be none the wiser.

That's the message from new international research showing that chilled, ready-to-eat, fresh-cut fruit retains

high levels of vitamin C and other antioxidants.

According to a science report in the Journal of Agricultural and Food Chemistry, cutting and packaging fruit has almost no effect on the main antioxidants. In fact, levels of some antioxidants increased in selected chilled fruits.

Human Disease

disease is a condition that impairs the A proper function of the body or of one of ts parts. Every living thing, both plants and animals, can succumb to disease. Hundreds of different diseases exist. Each has its own particular set of symptoms and signs, clues that enable a physician to diagnose the problem. A symptom is something a patient can detect, such as fever, bleeding, or pain. A sign is something a doctor can detect, such as a swollen blood vessel or an enlarged internal body organ. Every disease has a cause, although the causes of some remain to be discovered. Every disease also displays a cycle of onset, or beginning, course, or time span of affliction, and end, when it disappears or it partially disables or kills its victim. An epidemic disease is one that strikes many persons in a community. When it strikes the same region year after year it is an endemic disease. An acute disease has a quick onset and runs a short course. A chronic disease has a slow onset and runs a sometimes years-long course. The gradual onset and long course of rheumatic fever makes it a chronic ailment.

Kinds of Disease

Infectious (communicable) diseases are those that can be passed between persons. such as by means of airborne droplets from a cough or sneeze. Tiny organisms such as viruses, bacteria, fungi and worms can produce infectious diseases. Whatever the causalive agent, it survives in the person it infects and is passed on to another. Sometimes, a disease-producing organism gets into a person who shows no symptoms of the disease. The asymptomatic carrier can then pass the

disease on to someone else without even knowing he has it.

Non-infectious (non-communicable) diseases are caused by malfunctions of the body. These include organ or tissue degeneration, erratic cell growth, and faulty blood formation and flow. Also included are disturbances of the stomach and intestine, the endocrine system, and the urinary and reproductive systems. Some diseases can be caused by diet deficiencies, lapses in the body's defense system, or a poorly operating nervous system.

Deficiency diseases: due to deficiency in the diet of nutrients. They can generally be cured by providing the missing nutrients.

- (a) Protein deficiency causes two major diseases Kwashiorkar and Marasmus.
- (b) Mineral deficiency causes specific diseases. (i) Anaemia: Iron deficiency causes haemoglobin deficiency in blood. (ii) Goitre: Iodine deficiency causing no synthesis of thyroxine hormone of thyroid gland). (iii) Hypokalemia: potassium deficiency, (iv) Hyponatremia: sodium deficiency causes this state of low blood pressure and loss of body weight.
- (c) Vitamin deficiency causes a variety of diseases. (i) Night Blindness: (Vitamin A). (ii) Xerophthalmia: (dryness of eye due to lack of Vitamin A. (iii) Dermatosis: (Vitamin A). (iv) Beri-beri:(Vitamin B-thiamine). (v) Ariboflavinosis: (Vitamin B₂-- riboflavin). (vi) Pellagra: (nicotinic acid/ niacin-part of B complex group). (vii) Pernicious Anaemia: (Vitamin B₁,-Cabalamin). (viii) Scurvy: (Vitamin C ascorbic acid). (ix) Rickets:(a disease causing disorder of calcium and phosphorus metabolism due to Vitamin D deficiency, often found

in the early childhood: 6 months and 2 years. (x) Ostemalacia: (Vitamin D).

Infectious diseases are caused by various agents such as virus, bacteria, fungi and pro-

tozoa. (a) Diseases caused by Bacteria: Chol-

era, Diphtheria, Tuberculosis, Leprosy, Tetanus, Typhoid, Plague, Whooping Cough, Sore Throat, Pneumonia, Bacillar dysentery,

Gonorrhea, Syphilis and Botulism. (b) Diseases caused by Viruses: Chickenpox, Measles, Poliomyletis, Rabies, Mumps, Influenza, Hepa-

Diseases caused by Fungi: Ringworm, Athlete's foot, Dhobie itch. (d) Diseases caused by protozoans: Amoebiasis, Malaria, Sleeping sickness, Kalaazar, Diarrhoea, (e) Diseases caused by Helminthes or Worms: Filaria, Tape-

titis, Herpes, Viral Encephalitis and AIDS. (c)

worm and Hookworm transmission. Degenerative diseases occur due to malfunctioning of some organ or organ system in the body. They are: Heart Attack, Diabetes mellitus, Arthritis.

Sexually Transmitted Diseases (STD) Disease Causative organism

Gonorrhoea Neisseria gonoffhorae Syphilis Treponema pallidum Chancroid Haemophilus ducreyi Granuloma inguinale Donovanía granulomatis **Trichomoniasis** Trichomonas vaginalis Candidiasis

Candida albicans

Causative agent

Salmonella typhosa

Clostridium tetani

Chlamydiasis Chlamydia trachomatis H.V. Vaginitis Haemophilus vaginalis Genital herpes hominis type II (HSV II) Condyloma acuminatum Papova group virus Scables

Sarcoptes scabieri Pediculisis pubis Pthius pubis

Bacterial Diseases

over 200 individual diseases. These diseases

Gonorrhoea Leprosy Plaque

Vibrio cholerae

Troponema pallidum

Nesseria gonorrhoeae

Mycobacterium leprae

Mucobacterium

Berdetella pertussis

Cornebacterium diptheria

Meningococcus

tuberculosis

Diplococcus pneumoniae

Cholera

Syphillis

Pneumonia

Meningitis Diptheria Viral Diseases

Whooping cough

Disease and causative agent: Acquired

Immuno Deficiency Syndrome (AIDS): Human immunodeficiency virus (HIV) Chicken pox: Varicella herpes virus; Influenza: Orthomyxovirus; Measles (Rubeola):

Paramyxovirus; Mumps: Paramyxovirus; German Measles: Togavirus; Pollomyelitis: Enterovirus: Rabies: Rabdovirus.

Disease of Eye

Name of disease and symptoms: Astigmatism: Visual activity is decreased, eye strain

causes headache, cylindrical lens should be used

Cataract: Normal vision is hampered, blind-

ness may be caused. Lens is removed and artificial lens is used.

Glaucoma: Aqueous humour pressure increases. It may cause blindness. Hypermetropia (far sightedness): Distant objects can be seen clearly, near objects can't

Biconvex lens should be used.

be seen clearly. Image formed behind retina.

Strabismus (Squint): Eye ball turns to any

Trachoma: Redness in the eye, sensation for foreign body in eye.

of the sides.

Cancer

Cancer is a general term used to describe

progress differently over a period of time but share certain characteristics that include development within any tissue of a malignant

Manorama Yearbook 2007

Disease

Tetanus

Thyphoid

growth derived from abnormalities of the host. The abnormal cells grow without any control, invade through normal tissue barriers, spread to local and distant sites within the host, and reproduce indefinitely.

Sometimes, cancer cells do not remain confined to one part of the body and penetrate and infiltrate into the adjoining tissues and dislocate their functions. Some of the cancer cells get detached from the main site of origin and travel by blood and lymph to sites distant from the original tumour and form fresh colonies, called metastasis or secondary growth. Cell which undergo rapid, abnormal and uncontrolled growth are called neoplastic cells. The growth resulting from the division of such cells are called as neoplastic growth or tumours.

Tumours are commonly classified as: (i) Benign tumours: Abnormal and persistent cell division that remains localised at the spot of origin results in the benign tumours. In some cases it can be fatal. (ii) Malignant Tumour: It first grows slowly and this state is called the latent state. The tumour later grows quickly. The cancer cells go beyond adjacent tissue and enter the blood and lymph. Once this happens, they migrate to many other sites in the body where the cancer cells continue to divide. It is metastasis.

The masses of such abnormal cells formed and spread in this way lead to the death of the host if not eradicated. The incidence of cancer is rising steadily.

Diagnosis: The diagnosis of cancer is required to be confirmed either by a histopathalogical examination of a biopsy of fine needle aspiration cytology, firstly, to determine the extent of tumour and secondly to determine whether the tumour has metastasized to other sites. Using blood tests, x-ray studies, radionuclide scans, C.T. Scans and M.R.I. Scans, the cancer is staged according to staging systems-the T.N.M. system being widely used.

Treatment: Cancer treatment consists of

Tather Chemotherapy

Paul Ehrlich was born on March 14, 1854, in a respected Jewish distiller's household, in Germany. Ehrlich studied medicine at the Universities of Breslau, Strasbourg, and he graduated from Leipzig, in 1878. While still a student, he began investigations on the aniline dyes used in the distillery. With its aid, he discovered all the different types of white blood corpuscles.

Ehrlich always had the idea of creating substances that would exert their full action exclusively on the parasite harboured within the organism like 'magic bullets' which seek their target of their own accord. In April 1910, Ehrlich announced before the Congress for Internal Medicine at Wiesbaden, that a synthetic arsenical compound, which he named 'salvarsan' had shown curative properties in rabbit syphilis and also in clinical trials. It was first used in the treatment of human syphilis in 1911. Thus the science of chemotherapy was born.

In 1914, as a professor in the University of Frankfurt, Ehrlich explored the acidity of living tissues for certain dyes. In a remarkable monograph (1885), he reported his investigations into the distribution of oxygen in animal tissues and organs. Using two vital staining dyes, alizarin blue and indophenols blue, he demonstrated that while living protoplasm in general has potent reducing properties, bodily organs are classifiable according to their oxygen acidity. He enunciated the fundamental concept underlying his work: chemical affinities govern all biological pro

surgery, radiation therapy and systemic therapy using chemotherapy and hormones. These modalities may be used either singly or in combination. Developments and advances in imaging, coupled with better understanding and knowledge of the natural history of various cancers have led to the era of multimodality therapy which has changed the cancer treatment scenario.

Epidemiology: Estimates show that the number of new cancer cases in India is about 1,000,000 per year. The most common form of cancers seen in the males include cancers of the lung, stomach, oesophagus, mouth, larynx, hypopharynx, tonque, prostate, uri-

nary bladder and body uterus. In females, traditionally cancer of the cervix was the leading cancer, but of late, especially in the urban areas, cancer of the breast seems to be becoming a major problem. Cancers of the mouth are commonly seen in both the males and the females. Cancers of the larynx, hypopharynx, oesophagus and stomach are seen more in men than in females, while cancer of the gall bladder is seen more often in women.

Breast Cancer is becoming a common disease all over the world. It occurs to women and men. But women are more vulnerable to it. The risk of Breast Cancer increases with aging in women. The risk is also higher for women with a personal or family history; a long menstrual history; recent use of oral contraceptive or postmenopausal hormone replacement therapy; and no children or no live birth until age 30 or older. Other risk factors include alcohol consumption and obesity. Inherited mutations such as in the BRCA1 and BRCA2 genes greatly increase a woman's risk for Breast Cancer, but genetic factors account only for the 10% of the affected.

Physical symptoms include a breast lump and less commonly breast thickening, swelling, distortion or tenderness; skin irritation or dimpling; or pain, scaliness, or retraction of nipple. Breast pain is more commonly associated with benign conditions. The treatment include lumpectomy, mastectomy, radiation therapy, chemotherapy, hormone therapy, immunotherapy, or some combination of these. Various drugs are also available now a days. Early detection gives lot more chance of survival.

AIDS

The Acquired Immuno Deficiency Syndrome (AIDS) is caused by Human Immuno Deficiency Virus (HIV) which attacks human immune system, esp. lymphocytes. HIV is transmitted through blood and blood products, seminal and vaginal fluids, unprotected sex, infected blood transfusion, contaminated needles, artificial insemination, child birth to infected parents, etc. It however, does not spread by kissing, coughing, mosquito bites, food, water, working together, etc. Symptoms could be rapid weight loss, chronic diarrhoea, prolonged fever, persistent cough, herpes zoster infection, etc.

Tests like Enzyme Linked Immuno Sorbent Assay or ELISA kit, Particle Agglutination Test (PAT), Immuno Fluorescent Assay (IFA), Radio Immuno Precipitation Assay (RIPA), HIVA test, etc. are used to detect cases. In India, there are about 5.3 m infected people. Maharashtra, Manipur, and Tamil Nadu have comparatively more number of cases.

SCID

(Severe Combined Immune Deficiency): It is a congenital immunodeficiency disorder in which lymphocytes are not formed and the patient dies of even minor infection. Such children can survive only in germ free isolation chambers.

Osteoporosis

Osteoporosis, literally meaning 'porous bones, constitute the hardest part of the human body. According to experts, osporosis is just not calcium deficiency. It is combination of the loss of the organic atter in the bone, which gives it elasticity. d the inorganic matter, made up of subances such as calcium and phosphorous. hich gives it strength. In the early stages iteoporosis is painless and hence it is often alled the "silent disease". Since the genetic nake-up is the main factor behind the disase, some people are more likely to develop steoporosis than others. Over 300 million people suffer from osteoporosis in India without realising that every osteporosis-related bone fracture doubles the risk of death.

What causes osteporosis? Calcium plays an important role in transmitting signals to nerves and muscles and is therefore important in regulating the heart rate, muscle contractions, blood pressure and other bodily functions. To keep these functions regulated, the calcium in the blood must be maintained at a certain level. When it drops to a very low level, the body replenishes it with calcium from the bone - a living and growing tissue composed of a network of collagen fibres inlaid with calcium and phosphate. 'Resorption', the process of releasing calcium from bones into the blood, results in the breakdown of bones. By another process called 'formation', the bones get rebuilt. Together, the processes constitute bone remodelling. The continuous emodelling cycle serves to supply the body ith the calcium it needs and maintains the keletal structure and strengthens it by replacing old bones with new ones. When formation exceeds resorption, the bone mass increases. When resorption increases, it results in loss of bone mass. Continued excessive bone loss leads to osteoporosis. Bone fracture is the biggest risk for osteoporosis patients. Any bone can be affected, but the most serious ones are fractures of the hip and the spine.

> In India, the incidence is higher - one in four women and one in eight men get os-

teoporosis before the age of 50. More women die of osteoporosis fractures than of breast and ovarian cancers put together. Unfortunately, osteoporosis shows no symptom and is often diagnosed only after a fracture, by which time the patient may have suffered considerable bone loss.

Hepatitis

Hepatitis is caused by virus. These viruses are of six types, called A, B, C, D, E and G respectively. Out of these, the A and E types are found in water. All other are transmitted through blood. In India, the B and C types of viruses are prominent.

TB Epidemic

India accounts for about 33% of the global burden of tuberculosis. The disease is one of India's most important public health problems. Every day in India more than 20,000 people become infected with the tubercle bacillus, more than 5,000 develop the disease, and over 1000 die from TB. In India, tuberculosis kills 14 times more people than all tropical diseases combined, 21 times more than malaria, and 400 times more than leprosy. Every year, nearly 20 lakh people develop tuberculosis in India, nearly one million of them highly infectious sputum - positive cases. Two such cases develop every minute.

Every sputum-positive patient can infect 10-15 individuals in a year. Tuberculosis also kills more women than all causes of maternal mortalty combined. HIV and multidrug-resistant TB threaten to make this situation even worse. Unless urgent action is taken, more than 40 lakh people in India will die of tuberculosis in the next decade.

Combating TB India has long been at the forefront of the global battle against tuberculosis. Pioneering studies at the Tuberculosis Research Centre, Chennai and the National Tuberculosis Institute, Bangalore established the principles of tuberculosis control which

gling/ numbness in hands or feet • recurring skin, gum or bladder infections.

Diabetes cases worldwide are estimated to be more than 150 million. WHO predicts it to double by 2025 to reach 300 million. Developing regions, particularly Asia and Africa are expected to bare the burnt of the increase. Most alarming, however, is the spread of diabetese across age barrier, especially among the teenagers is extremely worrying. Diabetes is a chronic disease in which the body does not produce or properly use insulin, a hormone needed to convert sugar, starches, and other foods into energy necessary for daily life. Both genetics and environment appear to play roles in the onset of diabetes.

Guidelines for diagnosing diabetes: lowering the acceptable level of blood sugar from 140 mg. of glucose/deciliter of blood to 126 mg/deciliter; testing all adults 45 years +, and then every 3 years if normal; and testing at a young age, or more frequently, in high-risk individuals. Detection at an earlier stage will help prevent or delay complications of diabetes.

Type I (formerly known as insulin dependent)-The body produces very little or no insulin; disease most often begins in childhood or early adulthood. People with type 1 diabetes must take daily insulin injections to stay alive.

Type II (formerly known as non-insulin dependent)-The body does not produce enough or cannot properly use insulin. It is the most common form of the disease (90-95% of cases in people over age 20) and often begins later in life.

Complications of Diabetes More than half of all individuals with diabetes do not know that they have the disease until one of its lifethreatening complications occurs. Potential complications include:

Blindness diabetes is the leading cause of blindness in people ages 20-74. Each year, many people lose their sight because of diabetes.

Kidney disease 10% to 21% of all people with diabetes develop kidney disease.

Amputations Diabetes is the most frequent cause of nontraumatic lower limb amputations. The risk of a leg amputation is 15 to 40 times greater for a person with diabetes.

Heart disease and stroke People with diabetes are 2 to 4 times more likely to have heart disease. And they are 2 to 4 times more likely to suffer a stroke.

Alzheimer's disease

Experts observe that an estimated 12 million people are suffering from Alzheimer's disease worldwide.And as the population grows and people live longer, those numbers will explode more than 3 fold by the year 2050. Alzheimer's disease is a progressive, degenerative disease of the brain in which brain cells die and are not replaced.

Alzheimer's disease results in impaired memory, thinking, and behavior, and is the most-common form of dementing illness. The debilitating nature of the disease renders patients susceptible to infections (such as pneumonia and urinary tract infections) as they become emaciated, incontinent, Immobile, or enter a persistent vegetative state. It strikes equally among men and women of all races. Although most people diagnosed with Alzheimer's are older than age 60, the disease can occur in people in their 40s and 50s. Ten percent of those 65 years of age or older, and almost half of those over age 85, have the disease. The rate of the progression of Alzheimer's disease from the onset of symptoms until death ranges from 3 to 20 years; the average is 8 years. Eventually, patients become totally incapable of caring for themselves.

Diagnosis is complicated by the lack of a single, simple test to identify the disease. Through a series of diagnostic tests by a qualified physician, possible causes of symptoms, such as depression, drug interactions, nutrient imbalances, or other forms of dementia-such as those associated with stroke, can be identified. Huntington's disease, Parkinson's disease, Pick's disease, and infections (AIDS, meningitis, syphilis) are ruled out, yielding a diagnosis of Alzheimer's disease that is 80-90% accurate. A definitive diagnosis is possible only with a brain biopsy or an autopsy.

No treatment has proven successful in reversing the course of the disease, and providing care for patients with Alzheimer's disease is very physically and psychologically demanding. Nearly 70% of those afflicted need to be cared for in a nursing home. People with Alzheimer's disease need a safe, stable environment and a regular daily schedule. Physical exercise and social activity are important, as is proper nutrition. A bracelet identifying the person's name and condition may be helpful in case the person wanders away. The causes of Alzheimer's disease are unknown, Warning signs: Recent memory loss that affects job performance; Inability to learn new information; Difficulty with everyday tasks such as cooking or dressing oneself; . Inability to remember simple words; Use of inappropriate words when communicating: Disorientation of time and place; Poor or decreased judgment; Problems with abstract thinking; Misplacing objects in inappropriate places; Rapid changes in mood or behavior; Increased irritability, anxiety, depression, con-

Blood Vessel Disease

initiative.

Cholesterol A blood cholesterol level over 240 mg/dl (milligrams of cholesterol per deciliter of blood) approximately doubles the risk of coronary heart disease. Blood cholesterol levels between 200 and 240 mg/dl are in a zone of moderate and increasing risk. An estimated 6.5 mil (10.8% of) youths age 4-19 have levels of 200 mg/dl or higher.

fusion, and restlessness; Prolonged loss of

Blood Pressure

origins, and ages. Various causes can trigger this often symptomless disease. Since hypertension can increase one's risk for stroke, heart attack, kidney failure, and congestive heart failure, it is recommended that individuals have a blood pressure reading at least once every 2 years (more often if advised by a physician). A blood pressure reading is really two measurements in one, with one written over the other, such as 122/78. The upper number (systolic pressure) represents the amount of pressure in the blood vessels when the heart contracts (beats) and pushes blood through the circulatory system. The lower number (diastolic pressure) represents the pressure in the blood vessels between beats, when the heart is resting.

According to health guidelines, normal blood

pressure is below 130/85 and "high normal"

High blood pressure is divided into 4 stages,

High blood pressure, or hypertension,

affects people of all races, sexes, ethnic

based on severity: Stage 1 (mild) high blood pressure ranges from 140/90 to 159/99; Stage 2 (moderate) is from 160/100 to 179/109; Stage 3 (severe) is from 180/10 to 209/119; Stage 4 (very severe) is 210/120 and up.

is between 130/85 and 139/89.

The diagnosis of hypertension can be based on either the systolic or the diastolic reading. High blood pressure usually cannot be cured, but it can be controlled in a variety of ways, including lifestyle modifications and medication. Treatment should be at the direction and under the supervision of a physician.

Hypertension

Hypertension, is the commonest cardiovascular disease, predisposes to heart attack, heart failure, stroke, kidney failure etc.

Two values are recorded — one above (numerator) is called systolic pressure and the one recorded below (denominator) is the diastolic pressure. Upper limit of normal blood

pressure for an adult is 139/89; when the value exceeds this limit (on multiple recordings - at least three) he/she is said to have the disease called hypertension (systemic hypertension is the correct term).

Warning Signs of Heart Attack: • Uncomfortable pressure, fullness, squeezing, or pain in the centre of chest lasting 2 minutes or longer • Pain may radiate to the shoulder, arm, neck, or jaw . Sweating may accompany pain or discomfort . Nausea and vomiting also may occur . Shortness of breath, dizziness, or fainting may accompany other signs.

Warning Signs of Stroke: • Sudden numbness or weakness of face, arm or leg, especially on one of the body . Sudden confusion, trouble speaking or understanding • Sudden trouble seeing in one or both eyes • Sudden trouble walking, dizziness, loss of balance or coordination . Sudden severe headache with no known cause.

Genetic Disorder

(i) ABO incompatibility: O group mothers don't possess antigen A or B but have anti-A and anti-B antibodies. A or B group foetus in O group invites antibodies of the mother causing partial destruction of RBCs and production of bilirubin (affecting the baby with mild anaemia and jaundice). Similarly, Agroup foetus in B-group mother or B-group foetus in A-group mother is attacked by antibodies of mother. ABO hemolytic (RBC-destroying) disease of new born is quite common and less severe as compared to Rhincompatibility). (ii) Sickle Cell anaemia: It is due to a recessive autosomal gene (Hbs) that causes abnormalities in haemoglobin resulting in sickle of RBCs-sickle cells (rigid sickle cells obstructing capillary blood flow). (iii) Phenylketonuria causes deficiency of an enzyme called phenylalanine hydroxyls in liver (characterised as mental retardation, hypopigmentatiion of skin and hair, eczema,

mousy odour of skin, hair and urine). (iv) Haemophilia a recessive trait that occurs due to absence of plasma thromboplastin or antihaemophilia globulin, (v) Red-Green Colour Blindness: causes one unable to distinguish between red and green colour (predominantlly in male), (vi) Thalassemia results from defective synthesis of sub-units of haemoglobin, (vii) Downs' Syndrome or Mongolian Idiocy is caused by trisomy of 21st autonomic chromosome having a total of 47 chromosomes instead of 46. It is characterised by round face, flattened nasal bridge, broad fore-head, projecting lower lip, short neck, stubby fingers, etc.

Mental iliness

Psychosis: disease of CNS. It could also be related to diabetes, hypertension, and TB. In this case the patient is unaware of the illness and refuses treatment.

Epilepsy: Seizures characterised by abnormal electrical discharge in a part of brain. Symptoms: fits of convulsions (jerk, stiffness, tongue biting, sensory changes), cry, etc.

Neurosis: The patients show excessive reaction to given stress. It involves abnormal anxiety, fear, sadness, vague aches and pains.

Schizophrenia: It is characterised by disorganised personality (like auditory halfucinations, delusions, illogical thinking, and sense of being controlled by outside forces). Regular use of chicroromazine and psychosocial therapy give of of relief.

Medical Technology

A. Diagnostic Instruments: (1) ECG-eetrocardiograph setects myoelectrical cases duning cardiac cycle (sino-atrial block, = ==== pectors variular defects, etc. Echocardiography, a sonocraphic Target heart, reart vessels, valves, wait = - == - electroer cechalograph record asserting tivity from different parts of oraepilepsy, brain tumbur, 🛎

fects on brain, sleep disorder, etc. (iv) MET magneto encephalographic technique detects weak magnetic waves to find out the health of various parts of brain. (v)

Autoanalysers are automatic computerised instruments that estimate different biochemicals present in body fluids like urea, cholesterol, glucose, proteins, enzymes, etc.

B. Imaging Instruments: (i) Tomography—creates 3D image of internal area through imaging of different layers. It detects cysts, calculi, cancer, etc. (ii) CT Scanning — an

imaging method using invasive technique

with low-level X-ray radiation. It detects disorder in abdomen, chest, spinal chord, internal haemorrhage, tumour, etc. (iii) CAT scanning - detects problems inside the skull and location of any pathological condition.

(iv) MRI - magnetic resonance imaging uses

strong external magnetic field for mapping internal tissues, to highlight pathological changes and studying tissue metabolism. Imaging can be obtained from any plane. (vi) Ultrasound imaging is used to diagnose kidney stone, gall bladder stone, intestinal obstruction, fallopian tube, age, health, gender of foetus, etc.

C. Therapeutic Instruments (i) Pace-maker – regulates the heart beat. (It is affected by microwave-oven, metal detectors, electric shaver, cellular phone, automobile ignition, etc.) (ii) Angioplasty – used to open a blocked coronary artery vessel through ballooning. (iii) Angiography is a method of introducing radio-opaque contrast medium or fluoroscopic chemical through various parts of heart to study the health of walls, valves, ventricles, coronary arteries, etc. The progress could be filmed.

The word euthanasia is derived from two Greek words (eu, well, and thanatos, death), which mean "a good death". The term is usually used in a medical context. It is the practice of mercifully terminating life when a person is hopelessly ill or injured or without prospect of recovery in order to hasten the relief or death.

medical technology have made it increasingly possible for life to be prolonged. Prolonged hospitalisation or being bed-ridden for a long time causes lot of problems and inconveniences not only to the patient but to others too besides the escalating cost.

Modern advances in medicine and

Dr. Kevorkian, better known as Dr. Death, a physician even created a machine

which let patients self-induce drugs that would end their life if they are terminally ill. The world, anyway is divided widely over the subject, where a few are out to give it a legal status while others ban it altoghter.

Definitions:

It is the intentional killing by act or omission of a dependent human being for his or her alleged benefit. (The key word here is "intentional". If death is not intended, it is not an act of euthanasia).

There are different categories in

euthanasia - Voluntary euthanasia (when the person who is killed has requested to be killed); Non-voluntary (when the person who is killed made no request and gave no consent); Involuntary uthanasia (when the person who is killed nade an expressed wish to the contrary); ssisted suicide (someone provides an ndividual with the information, guidance, and means to take his or her own life or when it is a doctor who helps another person to kill themselves it is called "physician assisted suicide."); Euthanasia By Action (intentionally causing a person's death giving a lethal injection); Euthanasia By Omission (intentionally causing death by not providing necessary and ordinary (usual and customary) care or food and water).

There is no euthanasia unless the death is intentionally caused by what was done or not done.

Reasons for:

- 1. Unbearable pain, 2. Suffering,
- 3. People should not be forced to stay alive, and 4. Demanding a "right to commit suicide" (Not applicable in India).

Argument assisted.

Human lite is seen precious and it is not ethical to push one person to death. Mail does not have any night to declar his while he or she cannot create.

The act is against a moral man's concience and rejection of the importance and value of human life

It would not only be for people who are "terminally ill"

It can become a means of health care cost containment

It will become non-voluntary

Mistakes can be made with regard to supposed incurable diseases. The disease may be incorrectly diagnosed or may be able to be survived or cured.

No law having to do with mercy killing would be able to account for every circumstance, and therefore would be either so complex as to make dying longer and less dignified, it would have so few controls that abuses would occur.

પૂર્વે હાર્કાણિ હિંકે માં કોઈ

 $\mathbf{S}^{ ext{tem}}$ cells are building blocks of life. These versatile cells have the ability to grow into any kind of tissue-skin, heart, liver, or any other organ. These cells can be procured from embryos, umbilical cord blood, adult patient's own body like bone marrow, blood, etc. These stem cells work by repairing the damaged part of the body. They can treat cardiovascular disorders, diabetes and neurological disorders like stroke, muscular dystrophy, cerebral palsy, liver degeneration, and eye injuries. On the basis of their use the stem cells can be broadly divided into three types. (1) Totipotent: Can turn into any type of cell

in the body, including placenta. (2) Pluripotent: Can turn into any cell except placenta. (3) Multipotent: Have limited uses as they can turn into only some types of cells. cells can be frozen at minus 270 degree Celsius in liquid Nitrogen and can be used 50 years after a person is born to treat ailments that may develop due to genetic predispositions.

The stem cells therapy has become so simple that no major surgery is required. In most cases these cells are infiltrated or directly injected intravenously into the patient's affected area. Scientists have also overcome the ethical question of creating an embryo to extract stem cells and then destroy it using a therapeutic cloning process.

Stem Cell Research in India: Although stem cell research is at a nascent stage in India, it has immense potential. Now at AlIMS treatment using stem cells is available. In 2005, Indian doctors have successfully treated neurological disorders, cardiac disorders, diabetes, etc. As part of the facility, the AlIMS has set up an umbilical cord stem cell bank. These cells are then cryopreserved - stored in

liquid nitrogen at minus 270° Celsius. Even 90

years later, this can then be thawed and used

for treatment. More than 45 disorders can be

treated with stem cells from umbilical coblood.

New Embryo-Safe Stem Cells

In an innovative move, in 2006 a biotech company, Advanced Cell Technogy, has found a new way of making structure cells without destroying embryos, touting as a way to defuse one of the fiercest politi and ethical debates. The new method wo by taking an embryo at a very early stage development and removing a single cowhich can be coaxed into spawning embryonic stem cell line. With only one of removed, the rest of the embryo retains full potential for development.

्रियण द्वाराण्याच्या

he earliest instruments for measuring time included many devices like the Sun dial and the water clock which were used in Egypt. In the 2nd century B.C., Ctesibius, a Greek engineer of Alexandria, redesigned the ancient Egyptian water clock and made it popular. During the Middle Ages mechanical clocks run by falling weights came into vogue. These were more convenient than the water clocks but both erred by as much as half an hour per day. In 1884 the second - the lowest unit of time - was defined as 1/86,400 of the time that the Earth took to complete one rotation on its own axis or 1/ 86,400 of a day of 24 hours. This, of course. meant that the 24-hour day was made up of 86,400 seconds.

But the Earth wobbles as it rotates. This wobbling leads to fluctuations in the time of rotation. It was therefore decided in 1960 to abandon the period of rotation as the pri-

mary unit (that is, a day of 24 hours), and adopt the period of revolution (of the Earound the Sun) as the basis of calculation. The second was thus re-defined as 31,556,925.9747 of the time that the Eatook to complete one revolution round. Sun. A year of 365 days and odd, the consisted of about 31.5 million seconds in 1967 the General Conference.

Weights & Measures recognised the ators second as determined by the cesium (c sium) atom clock as the unit of time unthe International System of Units (SI). It atomic second is defined as the time tall by the cesium electron to comple 9,192,631,770 spins. The definition is in curate because the cesium electron in sometimes take more spins and sometimes spins than the defined norm. The ator clock has 2 specific advantages. It is affected by the vagaries of the atmosph

nor by the fluctuations in the rotation of the Earth. The latter has become important in recent years. For, it has been observed from 1970 onwards that the Earth is slowing down in rotation by nearly a second every year. Since this error has been noticed, clocks all over the world are being corrected at the beginning of every year to conform to the atomic time. The atomic clock developed by the British National Physical Laboratory has achieved a very high degree of accuracy. It is accurate to one second in 300 years. Since January 1972, a new standard of time called the Co-ordinated Universal Time (UTC) has also been maintained in Paris, the headquarters of the General Conference on Weights & Measures. This is not based on any single atomic clock but on the average of atomic clockreadings from 18 timing centres around the world.

The UTC does not gain or lose more than one hundred millionth of a second per day. This has whittled down the infinitesimal error of the atomic clocks to the vanishing point. It is expected that the UTC will remain absolutely correct for a quarter million years.

The system of Standard Time was introduced to correlate the time systems of various countries on an international basis. For this purpose the Earth was divided into 24 longitudinal zones, each zone being 15 degrees of an arc or one hour apart in time. The zero zone is centred at Greenwich (London) which gives the GMT or the Greenwich Mean Time. The 12th zone is divided by the 180th meridian, the International Date-line

The zones to the east of this line are numbered from 1 to 12 with the prefix minus indicating the number of hours to be subtracted to obtain the Greenwich Time. The zones to the west are similarly numbered with the prefix plus which shows the number of hours that must be added to get

the Greenwich Time. The Date-line is a zigzag line that coincides more or less with the 180th meridian. When the Date-line is crossed to the west the date must be advanced by one day. When the Line is crossed to the east, the date must be set back by one day. The Line is deflected between north latitudes 48° and 75° with the result that all Asia lies to the west of the line.

The 24-hour time is now being increasingly used especially by railways and other transport organisations. Its great advantage is that it dispenses with the suffixes a.m. and p.m.. In the 24-hour system, day begins at midnight, the zero hour, and the hours that follow are consecutively numbered from 0 to 23.

Away from Equator in the high latitudes daylight timings vary considerably. In such areas DAYLIGHT Saving Time (DST) is followed during a part of the year. The idea of setting clocks ahead to have more daytime during the waking hours was first suggested in a whimsical essay by Benjamin Franklin in 1784, In 1907 in England William Willett campaigned for setting clocks ahead by 80 minutes in four moves of 20 minutes each during the spring and summer. A less radical suggestion, to advance clocks by an hour for spring and summer, was rejected the next year. Summer DST was first adopted during World War I in such countries as the United States, Germany, and Great Britain. The same policy was followed during World War II. A variation, "double summer time," was used in England, with clocks advanced two hours in summer and one hour in winter. The Uniform Time Act of 1966, which called for six months of DST, took effect in most of the United States in 1967. Year-round DST was tried in 1973 but quickly lost public support. In 1986 DST was set to begin on the first Sunday in April and end on the last Sunday in October

Time Chart			Ghana					
Countries			Gibralter) 5.	1		(-) 10.30
	(+/- I Ho	21) 21)	Greece) 4.:	,	w Guinea	(+) 4.30
			Grenada		3.3	10 Paraguay		(-) 9.30
Afghanistan	(-) 1	.30	Guatemala		9.3	1		(-) 10.30
Albania	(-) 4.		Guyana	(-)		Philip	s	(+) 2.30
Algeria	(-) 4.		Haiti		8.3	-		(-) 4.30
Antilles	(-) 9.	- 1	Honduras	(-) 1		i -itagai		(-) 5.30
Argentina	(-) 8.	, ,	Hong Kong	(-) 1		1- 11-04		(-) 9.30
Australia	(+) 2.30/(+) 4.		Hungary	=	2.30	1 7-141		(-) 2.30
Austria	(-) 4.		Iceland		4.30	,		(-) 3.30
Bahamas	(-) 10.3		Indonesia		5.30	1	(-)(2.30)(+)5.30
Bahrain	(-) 2.3	- 1	Iran	(+) 1.30/			a	(-) 2.30
Bangladesh	(+) 0.3	- 1	Iraq	(-) 2		Senegal 1		(-) 5.30
Barbados		, ,	ireland	(-) 2	2.30	Seychelles		(-) 1.30
Belgium	(-) 9.3	٠,	Italy	(-) 5	.30	Sierra Leone	,	(-) 5.30
Belize	(-) 4.3	~ '	lvory Coast	(-) 4	.30	Singapore		(+) 2.30
Benin	(-) 11.3	1.	lamaica	(-) 5.	.30	Somalia		(-) 2.30
Bermuda	(-) 4.3	· 1 .	apan	(-) 10.	.30	Spain		(-) 4.30
Bolivia	(-) 9.30	, I :	apan Ordan	(+) 3.	30	Sri Lanka	(Indi	an Time)
Botswana	(-) 9.3(´ I .	ordan Senya	(-) 3.:	30	Sudan		(-) 3.30
Brazil	(-) 3.30	, ,		(-) 2.:	30	Suriname		
Brunei	(-) 8.30	1 10	orea (South) uwait	(+) 3.3	30	Swaziland		(-) 8.30
Bulgaria	(+) 2.30	1.	uwait ebanon	(-) 2.3	30	Sweden		(-) 3.30
Burkina Faso	(-) 2.30	1 12	beria	(-) 3.3	10	Switzerland		(-) 4.30 (-) 4.30
Cameroon	(-) 5.30		beria bya	(-) 5.3	0	Syria		-) 4.30 -) 3.30
Canada	(-) 4.30		ixembourg	(-) 3.3	0	Taiwan	-	
Yemen Islands	(~) 9/14.30	M	alawi	(-) 4.3	0	Tanzania		+) 2.30
Cen. African Repub	(-) 10.30		alaysia	(~) 3.3(0	Thailand		-) 2.30
Chad	. ,	M	aldives	(+) 2.30)	Tonga		+) 1.30 -) 7.30
Thile	(-) 4.30	M		(-) 0.30		Trinidad and To	t) opado	9.30
Thina	(-) 9.30	Ma		(-) 5.30	1	Tunisia		
Colombia	(+) 2.30		rshall Islands	(-) 4.30		Turkey		4.30
ongo	(~) 10 30	Me	xico	(+) 6.30		Uganda	, ,	2.30
osta Rica	(-) 4.30		ronesia	(~) 11.30		United Arab Emi		2.30
uba	(-) 11 30	Mo	nteserat	(+) 3.30/5.30		UK		1.30
tech Republic	(-) 10.30	Mo	rocco	(-) 9.30		Uruguay		5.30
nmark	(-) 4.30	Mo	ambique	(-) 5.30	1	/anuatu		8.30
bouti	(-) 4.30	Mya	nmar	(-) 3.30	1	atican City		5.30
minican Islands	(-) 2.30	Nan	ubia	(+) 1.00	1	'enezuela		4.30
minican Republic	(-) 9.30	Nau	TU .	(-) 3.30		emen		9.30
ador Republic	(-) 9.30	Nepa	st.	(+) 6.30	Y	ugoslavia		2.30
pt	(-) 10.30		erlands	(+) 0.00		àire	(-) 4	f
opia	(-) 3.30	New	Zealand	(-) 4.30	Z	ambia	(-) 4	- 1
- p. q	(-) 2.30	Vicar	agua	(+) 6.30	Zı	mbabwe	(-) 3	ì
nd	(+) 6.30	Viger		(-) 11,30	U:	SA ,	(-) 2. '4 Timo 7	.30
te.		Vigeri		(-) 5.30	Ne	THE POINT	4 Time Zon	
bia		lonva		(-) 4.30	Te.	×as	(-) 10,	
lany		man	-	(-) 4.30	Ph	oenix	(-) 11.	
y	(-) 4.30 P.	akista	n	(-) 1.30	Sar	Francisco	(-) 12.:	- 1
	-			(-) 0.30	Hav	vai (USA)	(-) 13.3 (-) 16.0	
ma Yearbook 2007								

Noise Scale

Sounds are tiny vibrations that can travel through air and other materials. The loudness of a sound is measured in decibels (db).

				(
Typical s	ound	levels	in deci	bels :

Typical sound levels in decibels:				
1. Silence	0 db			
2. Rustle of leaves	10 db			
3. Breathing	10 db			
4. Wind in the trees	20 db			
5. Whisper	20-30 db			
6. Ticking Clock	30 db			
7 B . P				

7. Radio Music, inside home 50-60 db 8. Loud television 70db 9. Children playing 60-80 db

10. Vacuum cleaner 80 db 11. Mixie loud snore 88 db

12. Roaring Lion 90 db 13. Road Traffic Noise 60-90 db

14. Heavy truck traffic 90-100 db 15. Powerful rock music

100 db 16. Motor Cycle 105 db 17. Power drill

110 db 18. Thunder storm 110 db

19. Pain threshold for humans 130 db 130 db above causes damage to hearing

Temperature Scales

The Celsius scale was worked out by the Swedish physicist and astronomer Anders Celsius in 1742. It was revised by another Swedish physicist J.P. Christen. This scale was originally called Centigrade. It was renamed Celsius scale in honour of its inventor Celsius.

The Fahrenheit scale was devised by the German-born physicist Gabriel Daniel Fahrenheit around 1715. The Kelvin scale was pioneered by the British physicist William Thompson Kelvin (1824-1907), later Lord Kelvin. Tre International System of Units (SI) recognises the Celsius and Kelvin scales. The Kelvin scale is derived from thermo-dynamics and is of special importance to scientists. The scale generally used by all is the Celsius. The unit of temperature adopted by the SI is based on the Triple Point of Water, i.e., the temperature at which solid, liquid, and gaseous water are all in equilibrium. The triple point has been defined as 273.16† (Kelvin) which is equivalent to 0.01°C. Zero degree Kelvin is the Absolute Zero. This corresponds to -273.16° Celsius and -459.69° Fahrenheit. Absolute Zero is a thermodynamic concept (based on heat energy). It is the point at which molecules have no heatenergy. At this point all motion stops. Even atomic particles slow down.

Temperature conversion formula

Celsius to Kelvin: $K = {}^{\circ}C + 273.16$ Fahrenheit to Celsius: ${}^{\circ}C = ({}^{\circ}F-32) \times 0.555$ Celsius to Fahrenheit: °F = °C x1.8 +32

Comparison of temperature scales:

		cour acale	:5:
	٥Ę	°C	K
Absolute zero	150 7	-273.15	
Freezing pt. water	,,,	-2/3.15	0
Normal I	32	0	273.15
Normal human body	98.6		310.15
Boiling point, water	212	٠,	
	412	100	373.15

		Ceisius, Builing	point, water 212	100 373.1
	Memoi Bytes	y Size Convers	sion Table	
Kilobyte	1,024	Kilobytes		
Megabyte	1,048,576	1,524		
Gigabyte	1,073,741,824	1,742,576	Megabytes	
Terabyte	1,099,511,627,77		1,524	Gigabytess
-		11/2/12 /20	1,542,576	1,024

Invention

Acetylene gas

निष्याचे वार्वे विवास स्थान

Date

1862

Inventor

Berthelot

Acetyletie gas	.002	Delaicioc	***************************************
Adding Machine	1642	Pascal	French
Adhesive tape, Scotch	1930	Richard Drew	USA
Aeroplane	1903	Orville & Wilbur Wright	U.S.A.
Air conditioning	1902	Carrier	USA
Airplane, jet engine	1939	Ohain	German
Airship (non-rigid)	1852	Henri Giffard	France
Aerosol spray	1926	Erik Rotheim	Norway
Airship (rigid)	1900	G.F. von Zeppelin	Germany
Artificial Heart	1957	Willem Kolff	Netherlands
Atomic Bomb	1945	J.Robert Oppenheimer	USA
Atomic numbers	1913	Moseley	Britain
Atomic theory	1803	Dalton	Britain
Automatic rifle	1918	John Browning	USA
Bakelite	1907	Leo H. Baekeland	Belgium
Ballistic missile	1944	Wernher von Braun	Germany
Balloon	1783	Jacques & Joseph Montgolfier	France
Ball-Point Pen	1888	John J. Loud	U.S.A
Ball-Point Pen (Modern)	1938	Lazlo Biro	Hungary
Barometer	1644	Evangelista Torricelli	Italy
Battery (Electric)	1800	Alessandro Volta	Italy
Bicycle	1839-40	Kirkpatrick Macmillan	Britain
Bicycle Tyres (pneumatic)	1888	John Boyd Dunlop	Britain
Bifocal Lens	1780	Benjamin Franklin	U.S.A.
Bleaching Powder	1798	Tennant	Britain
Bolt-action rifle	1889	P.von Mauser	Germany
Bunsen Burner	1855	R. Willhelm von Bunsen	Germany
Burglar Alarm	1858	Edwin T. Holmes	U.S.A.
Calculus	1670	Newton	Britain
Camera, Kodak	1888	Walker Eastman	USA
Canned food	1804	Appert	French
Car (steam)	c. 1769	Nicolas Cugnot	France
Car (Petrol)	1888	Karl Benz	Germany
Carburettor	1876	Gottlieb Daimler	Germany
Carpet Sweeper	1876	Melville R. Bissell	U,S.A.
Cash Register	1879	James Ritty	U.S.A.
Cassette, audio	1963 •	Philips Co.	Holland
Cassette, videotape	1969	Sony	Japan
Cellophane	1908	Dr. J. Brandenberger	Switzerland
Celluloid	1861	Alexander Parkes	Britain
Cement (Portland)	1824	Joseph Aspdin	Britain
Chemotherapy	1909	Ehrlich	German
Chronometer	1735	John Harrison	Ociman

1735

John Harrison

Country

French

Britain

Cinema	1895	Nicolas & Jean Lumiere	Stoner
Clock (mechanical)	1725	I-Hsing & Liang Ling-Tsan	China
Clock (Pendulum)	1656	Christian Huygens	Netherlands
Cloning, DNA	1973	Boyer, Cohen	U5A
Cloning, mammal	1996	Wilmut, et al	· · · · · · · · · · · · · · · · · · ·
Compact disc	1972	RCA	U.A
Compact disc player	1979	Sony, Philips Co	Japan, Hetherlands
Computer, laptop	1987	Sinclair	initalin
Computer, mini	1960	Digital Corp.	٨٠,١
Crossword puzzle	1913	Arthur Wynne	0.5.6
CT scan	1973	Hounsfield	Britain
Dental Plate	1817	Anthony A. Plantson	しょん
Diesel Engine	1895	Rudolf Dieself	Gettinti)
Disc Brake	1902	Dr. F. Lanchester	Bulain
Disc, video	1972	Philips Co.	Holland
DNA, structure	1951	Crick-UK, Watson-US, Wilkins-IJK	· Frematica
	1832	Hypolite Pixii	France
Dynamo Electric Blanket	1883	Exhibited at the Vienna Exhibition	· Francisco
Electric Blanket	1882		
Electric Flat Iron		H.W. Seeley	11,5 A
Electric Furnace	1861	William Siemens	Britain
Electric Lamp	1879	Thomas Alva Edison	A 2.00
Electric Motor (DC)	1873	Zenobe Gramme	BALGILIES
Electric Motor (AC)	3331	Nikola Tesla	U,\$ A
Electric iron	1882	Henry W. Seely	1;54
Electric Washing machine	190 <i>6</i>	Alva J. Fisher	12.5 #
Electro-Magnet	1824	William Sturgeon	Ettait
Electron	1897	Thomson, I	Bridge
Electroplating	7805	Luigi Brugnatelli	1121
Electronic Computar	122±	Dr. Alan M. Turng	Erair
Facsimile Machine	1843	Alexander Esin	3/.1/10
Fibre optics	T 955	Kacany	Ertair
film (moving cuttines)	1825	Louis Prince	5-3-16
Film (ta"drg)	1922	J. Engl, J. Musselle & H. Yegt	Carriery
film (musical scuric)	7,923	Dr Le de Forest	نحدته وا
Floppy disk	7,377	IE:J	1,52
Frequency Mcculation (Pvf)	7933	EH. ARTSTORY	1, 7, 3
Frisbee	7342	Englister	1.7.
Frozen food	T9Z#	Carrence Birdoeye	1
Fountain Pen	7774	Lawis E Visienten	٠٠. ا
Galvanometer	7,354	AFTERSAME AFTERS	tento
Gas Lighting	7792	William Murares	72912
Geiger courter	73-3	Table	سير السعي
Glass (stained)	<u> </u>	مِنْ اللَّهُ عِلَاللَّهُ عِلْكُوا عَلَى اللَّهُ عَلَيْكُ عِلَاللَّهُ عَلَيْكُ عِلْكُوا عِلْكُوا عِلْكُولُ عَلَيْكُوا عِلْكُولُ عَلَيْكُ عِلْكُولُ عَلَيْكُ عِللَّهُ عَلَيْكُ عِلْكُولُ عَلَيْكُ عِلْكُولُ عَلَيْكُ عِلْكُولُ عَلَيْكُ عِلْكُولُ عَلَيْكُ عِلْكُولُ عِلْكُولُ عِلْكُولُ عِلْكُ عِلْكُ عِلْكُولُ عَلَى عَلَى عَلَاللَّهُ عَلَيْكُولُ عَلَيْكُ عِلْكُولُ عَلَيْكُولُ عَلَيْكُولُ عَلَيْكُولُ عَلَيْكُولُ عِلْكُولُ عِلْكُ	وميرس مستعير
CISTEMSES	= 1505 E C	المالية المستد المستدانية المستدع للمامر	n'i manie
G'der	7353	3-19-17-12-12-12-12-12-12-12-12-12-12-12-12-12-	111121
Gramochone		The state of the s	
Octobed missile	7.7.7.3	Named Carpetin	· / 2000
رانه دید این	-345	English San	
He'ccc's	-3	ما الما الما الما الما الما الما الما ا	رب مدمدیسیر
HEV		The Market	
Heagran	*35±	The second	
HOWETTE TO THE PERSON IN	-54T	The state of the s	at and
History bare	1955	The state of the s	
1	-252		

240 SCIENCE PANORAMA

Intelligence testing

Porcelain

Intelligence testing	1905	Simon Binet	French
Iron Working (Carbonised)	c. 1200 B.C.		Cyprus & N. Palestine
et Engine	1937	Sir Frank Whittle	Britain
Kevlar	1965	Blades Kwolek	USA
Laser	1957	Gould	U.S.A.
Launderette	1934	J.F. Cantrell	U.S.A.
Lift (Mechanical)	1852	Elisha G. Otis	U.S.A.
Lightning Conductor	1752	Benjamin Franklin	U.S.A.
Linoleum	1860	Frederick Walton	Britain
Linotype	1883	O. Margenthaler	U.S.A
Locomotive	1804	Richard Trevithick	Britain
Logarithms	1614	Napier	Britain
Loom, power	1785	E. Cartwright	Britain
Loudspeaker	1900	Horace Short	Britain
Machine Gun	1718	James Puckle	Britain
Magnetic Recording Tape	1928	Fritz Pfleumer	Germany
Maps	c.3800 B.C.		ets of river Euphrates)
Margarine	1869	Hippolyte M. Mouries	France
Match, safety	1826	John Walker	Britain
Microphone	1876	Alexandedr Graham Bell	U.S.A.
Microprocessor	1971	Robert Noyce & Gordon Moore	U.S.A.
Microscope, comp.	1590	Z. Janssen	Netherlands
Microscope, elect.	1931	Ruska Knoll	German
Microwave Oven	1947	Percy LeBaron Spencer	U.S.A.
Motor Cycle	1885	G. Daimler of Cannstatt	Germany
Movie Projector	1893	Thomas Edison	U.S.A
MRI	1971	Damadian	USA
Neon Lamp	1910	Georges Claude	France
Neutron	1932	Chadwick	Britain
Neutron bomb	1958	Samuel Cohen •	USA
Nylon	1937	Dr. Wallace H. Carothers	U.S.A.
Optical Fibre	1955	Narinder Kapany	Germany
Paper	A.D. 105	Training Raparty	China
Pacemaker	1952	Zoll	USA
Parchment	c. 1300 B.C.		Egypt
Parking Meter	1935	Carlton C. Magee	U.S.A.
Parallel Computing	1979	Seymour Cray & David Gelerntes	
Pasteurization	1867	Louis Pasteur	France
Pencil	1792	Jacques-Nicolas Conte	France
Periodic table	1869	Mendeleyey	Russia
Photocopier	1938	Carlson	· USA
Photoelectric cell	1893	Julius Elster, Hans F. Geitel	Germany
Photo film, celluloid	1893	Reichenbach	USA
Photo film, transparent	1884	Goodwin Eastman	USA
Photographic paper	1835	Talbot	Britain
Photography (on metal)	1826	J.N. Niepce	France
Photography (on paper)	1835	W.H. Fox Talbot	Britain
Photography (on film)	1888	John Carbutt	U.S.A.
Piano	1709	Cristofori	U.S.A. Itally
Pistol, revolver	1836	Colt	USA
Plasticine	1900	William Harbutt	U.K.
Plutonium fission	1940	Kennedy What Seaborn Soore	U,N.

1940

1851

Kennedy, Whal, Seaborg, Segre

1905 Simon Binet

French

U.S.A

Earliest report from China

Post-it-note	1980	3M	USA
	. 6500 B.C.		Asia Minor
Pop-up toaster	1927	Charles Strite	U.S.A.
Printing Press	c. 1455	Johann Gutenberg	Germany
Printing (rotary)	1846	Richard Hoe	U.S.A.
Printing (Web)	1865	William Bullock	U.S.A.
Propeller (ship)	1837	Francis Smith	Britain
Proton	1919	Rutherford	N.Zealand
Quantum theory	1900	Planck	German
Radar	1922	A.H. Taylor & Leo C. Young	U.S.A.
Radiocarbon dating	1947	Libby	U.S.A
Radio Telegraphy	1864	Dr. Mahlon Loomis	U.S.A.
Radio Telegraphy (Trans Atlant		G. Marconi	Italy
Rayon	1883	Sir Joseph Swan	Britain
Razor (electric)	1931	Col. Jacob Schick	U.S.A.
Razor (safety)	1895	King C. Gillette	U.S.A.
Record (long-playing)	1948	Dr. Peter Goldmark	U.S.A.
	1850		U.S.A.
Refrigerator	1905	James Harrison, Alexander Catlin	
Relativity theory Rollerblades	1903	Einstein	German
		Scott & Brennan Olsen	U.S.A.
Rubber (latex foam)	1928 -		Britain
Rubber (Tyres)	1846	Thomas Hancock	Britain
Rubber (vulcanised)	1841	Charles Goodyear	U.S.A.
Rubber (waterproof)	1823	Charles Macintosh	Britain
Rubik Cube	1975	Prof. Emo Rubik	Hungary
Safety Pin	1849	Walter Hunt	U.S.A.
Safety razor	1903	King Camp Gillette	U.S.A
Seat belt	1959	Volvo	Sweden
Self-starter	1911	Charles F. Kettering	U.S.A.
Ship (steam)	1775	J.C. Perier	France
Ship (turbine)	1894	Hon. Sir C. Parsons	Britain
Silk Manufacture	c. 50 B.C.		China
Skateboard	- 1958	Bill & Mark Richards	U.S.A.
Skyscraper	1882	W. Le Baron Jenny	U.S.A.
Slide Rule	1621	William Oughtred	Britain
Slinky spring	1946	Richard James	U.S.A.
Spectacles (convex)	1289		Venice, Italy
Spinning Frame	1769	Sir Richard Arkwright	Britain
Spinning Jenny	1764	James Hargreaves	Britain
Spinning Mule	1779	Samuel Crompton	Britain
Steam Engine	1698	Thomas Savery	Britain
Steam Engine (piston)	1712	Thomas Newcomen	Britain
Steam Engine (condenser)	1765	James Watt	Britain
Steel (stainless)	1913	Harry Brearley	Britain
Stethoscope Submarine	1819	Laennec	French U.S.A.
Super Computer	1776	David Bushnell	U.S.A.
Swiss army knife	. 1976	J.H.Van Tassel	Switzerland
Synthesiser	1891	Karl Elsener	USA
Tank	1964	Moog	Britain
Tape recorder	1914	Sir Ernest D. Swington	Denmark
Teddy bear	1899	Fessenden Paulsen	Germany
Telegraph	1903	Margarete Steiff	· Exp.
graphi	1787	M. Lammond	

Cortisone

Cortisone

Cryo-surgery

Telegraph Code	1837	Samuel F.B. Morse	.A.2.U	
Telephone, cellular	1947	Bell Labs	U.S.A.	
Telephone (Imperfect)	1849	Antonio Meucci	Italy	
Telephone (Perfected)	1876	Alexander Graham Bell	U.S.A.	
Telescope	1608	Hans Lippershey	Netherlands	
Television (mechanical)	1926	John Logie Baird	Britain	
Television (electronic)	1927	P.T. Farnsworth	U.S.A.	
	1928	John Logie Baird	Britain	
Television, colour	1941	J.R. Whinfield, J.T. Dickson	Britain	
Terylene	1831	Michael Faraday	Britain	
Transformer		Bardeen, Shockley & Brattain	U.S.A.	
Transistor	1948			
Transistor radio	1955	Sony	Japan	
Uranium fission, atomic reactor	1942	Szilard Fermi	U.S.A	
Vacuum cleaner, elec.	1907	Spangler	USA	
Video tape	1956	Charles Ginsberg	U.S.A.	
Velcro (hook-and-loop-fastener)	1948	Georges de Mestral	Switzerland	
Washing Machine (elec.)	1907	Hurley Machine Co.	.A.2.U	
Watch	1462	Bartholomew Manfredi	Italy	
Water Closet	1589	Designed by J. Harrington	Britain	
Welder (electric)	1877	Elisha Thomson	U.S.A.	
Windmill	c. 600		Persian corn grinding	
Wireless (telegraphy)	1896	G.Marconi	Italy	
Writing c. 35	00 B.C.		Sumerian civilization	
X-ray	1895	Wilhelm K. Roentgen	Germany	
Yo-Yo	1929	Donald F. Duncan	U.S.A.	
Zip Fastener	1891	W.L. Judson	U.S.A.	
Milestones in Medicine				
Adrenaline	1894	Schafer and Oliver	Britain	
Anatomia*	1316	Mondino	İtaly	
Anesthesia, local	1885 1898	Koller	Austria	
Anesthesia, spinal Anti-toxins (science of immunity)		Bier	Germany	
- Artificial Heart	1957	Behring & Kitasato Willem Kolff	Germany, Japan	
Ashtanga Hridaya		DVagbhata	Netherland	
Aspirin	1889	Dreser	India	
Aureomycin	1948	Duggar	Germany USA	
Ayurveda 20	00-1000	BCAtreva	India	
Bacteria	1683	Leeuwenhock	Netherlands	
Bacteriology	1872	Ferdinand Cohn	Germany	
Biochemistry	1648	Jan Baptista Van Helmont	Belgium	
Blood plasma storage (blood ban	k)1940	Drew	USA	
Blood Transfusion	1625	Jean-Baptiste Denys	France	
Cardiac Pacemaker	1932	A.S.Hyman	USA	
CAT Scanner	1968	Godfrey Hounsfield	Britain	
	93-1541	Paracelsus	Switzerland	
Chloroform as anaesthetic	1847	James Simpson	Britain	
Chloromycetin	1947	Burkholder	USA .	
Cholera, T.B. germs	1877	Robert Koch	Germany	
Circulation of blood	1628	William Harvey	Britain	
Cortisone	1936	Edward Calvin Kendall	1154	

1936

1936

1953

Edward Calvin-Kendall

Kendall

Henry Swan

USA

USA

USA

Diphtheria germs 1883-84	Klebs & Loffler	Germany
Electro-cardiograph 1903	Willem Einthoven	Netherland
Electro-encephalogram 1929	Hans Berger	Germany
Embryology 1792-1896		Estonia
Endocrinology 1902	Bayliss & Starling	Britain
First Test Tube Baby 1978	Steptoe & Edwards	Britain
Gene Therapy on humans 1980		USA
Genes associated with Cancer 1982	Robert Weinberg & others	USA
Heart Transplant Surgery 1967		S.Africa
Histology 1771-1802		France
Hypodermic Syringe 1853		Britain
Insulin for Diabetes 1921	Banting & Best -	Canada, Macleod - Britain
Kidney Machine 1944	9	Netherland
Leprosy Bacillus 1873		Norway
LSD (Lysergic acid diethylamide) 1943		Switzerland
Malaria germs 1880		France
Morphine 1805		Germany
Neurology 1758-1828		Germany
Nuclear magnetic resonance imaging 19		USA
Open Heart Surgery 1953	Walton Lillehel	USA
Oral Contraceptive pills 1955	Gregory Pincus, Rock	USA
Penicillin 1928		Britain
Physiology 1757-66		Switzerland
Positron Emision Tomography 1978	Louis Sokoloff	USA
Psychoanalysis 1895	Sigmund Freud	Austria
Rabies Vaccine 1860		France
Recombinant–DNA technology 1972-73 Reserpine 1949		
Rh-factor 1949		India USA
Serology 1884-1915	Paul Ehrlich	
Sex hormones 1910		Germany Austria
Sidhayoga c.750		
Small Pox eradicated 1980		India UN
Stethoscope 1819		France
Streptomycin 1944		USA
Synthetic Antigens 1917		USA
Terramycin 1950		USA
Thyroxin 1919		USA
Trichloroethane 1939	Paul Muller	
Typhus Vaccine 1909		Germany France
Use of artificial heart (for surgery) 1963	***************************************	USA
Vaccination 1796		Britian
1770		USA
1/2		
14	· · · · · · · · · · · · · · · · · · ·	USA
Vaccine, polio 1954 Vaccine, polio- oral 1960		. USA
Vece		
7000		France
Visale		Britain USSR,Netherland
Vitamin A 1913		USA, Netherland
Vitamin B1 1936		USA
Vitamin C 1919		Norway
Vitamin D 1939		USA
Vitamins K 1925 Vitamins K 1938		USA
Waster		
		Greece
200-100 BC	Patanjali	India

गोवारीय देवारी

owest Melting Point Since Mercury melts at -38.8°C (-38°F), it is liquid at room temperature. Mercury is used in

thermo-meters because it expands as it is heated. Highest melting point The tempera-

ture must be 3,652°C (6,606°F) before carbon will melt-two-thirds as hot as the sun's surface.

Rarest elements Astatine is the rarest

element on Earth; rhodium is the scarcest metal in the world-just 3 tonnes (2.9 tons) are

lent to ten people each weighing 64kg

mined every year.

Heaviest metal A 33-cm3 (13-in 3) cube of osmium weights 640 kg (1,411 lb)-equiva-

Acids and Alkalis

The acid or alkali (Or base) content of a substance is measured in pH (potential Hydrogen) on a scale of 0-14. Acids dissolve in water to form sharp-tasting solutions, like lemon juice. Alkalis dissolve in water to form soapy solutions: Substance (pH) - Hydrochloric Acid-

(Acid) 0, Car battery acid 1.0, Lemon juice

2.4, Apple 3.0, Vinegar 4.0, Rainwater 5.6,

Milk 6.6, Pure water Neutral) 7.0, Human

blood 7.4, Sea water 7-8, Baking soda 8.5, Caustic Soda (Alkali) 14.0 Colours of the spectrum

Violet Indigo Blue Green Yellow Orange Red Formulae

a= length of one side, b= length of base, h=length (perpendicular height), r=radius

Volume: Cube or cuboid h x b x a • Cylinder p x r^2 x h • Sphere 4 x p x r^3 / 3 • Cone p x r2 x h / 3 • Pyramid a x b x h / 3

Area: Circle p x r2 • Rectangle b x h • Parallelogram b x h • Triangle 1/2 x b x h • Trapezium 1/2 x (a x b) x h • Cube (surface area) 6 x b x h • Surface of radius r (surface area) 4x p x r2 • Cylinder(surf.area) (2x p $xrxh)+(2x p xr^2) \cdot Cone(area of curved surf.)$

 $p \times r \times (r^2 + h^2)$ Others: Velocity = distance/time • Accel-

sure= force/area • Work = force x distance •

Moment of Inertia= mass x radius of gyration

Modulus of elasticity= stress/strain • Surface

eration=velocity/time • Momentum= mass x velocity • Force= mass x acceleration • Pres-

tension= force/ length. Gauge and Bore diametre (mm):

6=23.34; 10=19.67; 12=18.52; 14=17.60;

16 = 16.81; 20 = 15.90Carat: is a measure of fineness for gold equal to 1/24

part of pure gold in a n alloy. 24 = Puregold; 18 = 1/4 alloy.

For precious stones, it is equal to 200 mgms or 3.086

km

sq. cm

sq. cm

sq. km

cu m

ltr

2.54

0.3048

0.9144

1.6093

6.4516

0.0929

2.5899

0.4047

2.5899

0.0283

16.3871

28.3495

31,1035

0.4536

0.5682

0.0296

1.016

1.852

Ouick Conversion Table

grains troy.

Area

Imperial to metric multiply by

Length inches

cm feet m yards m statute miles km

nautical miles

sq. yards acres hectares sa. miles sq. km Volume cu. inches cu cm

sa. inches

sq. feet

cu feet Weight ounces (avoirdupois)grams

ounces (troy) grams pounds kq

tons (long) tonnes ltr

Capacitypint UK pint US ltг

fl. ounces US

0.4732 gallons UK Ìtr 4.546 gallons US ltr 3.7854 fl. ounces UK ltr 0.0284

THE COUNCE

PART MS

ecteviti edi:

Universe have changed drastically over the ages. At first the Earth was put at the centre of the Universe. Then Earth was found to be just a planet, and thought Sun as the centre. Soon Sun was found to be an ordinary star, which was part of galaxy, and man began to think that galaxy was the Universe. Now scientists believe that there are many galaxies and that clusters of many galaxies make our Universe. Continuing this trend of astronomical upsizing, the latest speculation among astronomers is that maybe the Universe we know is only one of the many - and that there may be many Universes, making a vast Superuniverse.

The Universe was called COSMOS, as opposed to Chaos, when it was first conceived of as an orderly unit, and the studies relating to the Cosmos were known as Cosmogony or Cosmology. Today we speak of them as Space Sciences.

Ancient Cosmology

Ancient civilisations: They had different ideas about what the universe was like. But obviously, people started stargazing long before the early civilisations grew up. When they learned how to write and read they started recording what interested them.

Key Dates: 4000 BC Chinese astronomers record eclipse; 2500 BC Great Pyramid constructed; 2000 BC lines of standing stones at Carnac and Stonehenge erected at Salisbury by megalithic observers.

The Babylonians established a calendar based on the regular 29 1/2 day cycle of the fase of Moon. Since 3000BC they used zodiac signs similar to what is in use today. The

ancient Egyptians while building the pyramids aligned them to the patterns in the constellation Orion.

The Greek Astronomers: Astronomy grew in leaps and bounds when many astronomers, philosophers, starwatchers started actively participating and making detailed records. Perhaps the greatest Greek astronomer was Hipparchus of 150 BC, who compiled a catalogue of the positions of more than 800 stars besides establishing a magnitude scale to measure star brightness, still in use.

Key Dates: 585 BC Thales predicts ecllipse; 400BC Meton sketches phases of Moon; 200BC Aristarchus proposes Sun-centred universe and Eratosthenes of Cyrene measured the circumfrence of the Earth, close to present calculations; 150BC Hipparchus compiles a star catalogue and Ptolemy writes Almagest.

Aristotle, meanwhile concluded the shape of the Earth was spherical and not flat as commonly believed by masses.

The Arab Astronomers: In c. 820 Almagest got translated to Arabic; c. 1428 Ulugh Beigh founds observatory in Samarkand. During those times the famous Arab ruler of Iraq, Caliph Harun Al-Rashid, patronised arts and science.

In Renaissance Europe, the natural scientists and philosophers questioned ancient beliefs, antagonising the church and risking the wrath of the church. However, a moderate Polish priest named Nicholas Copernicus wrote in his book 'De revolution orbium coelestium' that Sun is the centre of the Universe, marking the beginning of modern

astronomy. In 1576 Tycho Brahe, a Danish

lawyer, established Uraniborg observatory and made systematic observations with unprecedented accuracy.

The Indian Astronomers: Aryabhatta, Bhaskaracharya, Varahamira, etc.

Outer Space

The difference between space and outer space is that space means the whole Universe including the Earth while outer space means all space other than the Earth. In fact, outer space begins where the earth's atmosphere ends and extends on and on in all directions.

Outer space is vast. Our terrestrial units of measurement hardly suit its dimensions. So we have evolved new units of measurement like the Light Year and the Astronomical Unit (AU). A Light Year is the distance covered by light in one year in vacuum travelling at a speed of 299,792.5 km per second. The solar system is less than one light-day (the distance light travels in one day) across.

Astronomical Unit represents the mean distance between the Sun and the Earth. Distances within the solar system are measured in AU. Light travels this distance in 8.3

min approx. AU in terrestrial measurements is 149,597,870 km. The distance between the Sun and Pluto, the outermost planet, averages 39 AU. In terms of space dimensions, a Light Year is made up of about 60,000 AUs.

Astronomy

The word is from the Greek astron meaning Star (and nautes meaning sailor). Astronomy is the scientific study of the heavens and all that is therein. It is not to be confused with Astrology-which lacks any kind of scientific basis and encompasses the belief that heavenly bodies affect human lives.

Modern astronomy began with Italian astronomer Galileo. In 1609 Galileo heard of the telescope made by the Dutchman Hans Lippershey. He improved upon it and constructed an instrument that could magnify upto thirty diameters. It was this instrument, a refractor telescope, that heralded the era of optical astronomy. Galileo made several startling discoveries. He found that the moon's surface is rugged, and that Pleiades is a group of over 40 stars. He discovered four of Jupiter's moons and observed the sunspots.

Unter-Planetary Manned Mission

After the International Space Station (ISS) is completed, NASA will take up the challenge of exploration beyond low Earth orbit - to the Moon, to Mars and the Solar system. Taking a step further, NASA is expected to test the new Crew Exploration Vehicle (CEV), now rechristened Ares 1, by 2008. NASA will conduct its first manned mission by 2014. Ares 1 will also transport astronauts and scientists to the ISS after the Shuttle fleet is retired.

Ever since Neil Armstrong and Buzz Aldrin became the world's first two human beings to land on the Moon in July 1969, NASA followed it up by sending ten more astronauts to moon. However, for more

than three decades now, no human being has visited the Moon, NASA aims to use Ares 1 for returning astronauts to the Moon by 2020 and use the CEV as a stepping stone for sending human beings to Mars and beyond. The goal of this second wave of lunar exploration will be living and working on the moon for increasingly extended periods and to develop new technologies (for example, extraction of Oxygen from the lunar soil), and extract minerals which will reduce costs. An extended human presence on the moon or voyage to Mars prepare mankind for the 🐗 though it will take three may to a three-day journey to

In 1668 Newton invented a new instrunent, the reflector telescope. In a refractor elescope, light is gathered by a large objective ens. In a reflector telescope a large curved mirror is used for this purpose. Both types of optical telescopes are still in use. The invention

nirror is used for this purpose. Both types of optical telescopes are still in use. The invention of the optical telescope was an epoch making event in the history of astronomy.

Key dates: 1609- Galileo pioneers tele-

aws of planetary motion; 1672 Newton demonstrates his reflecting telescope, 1666 Newton formulates his law of gravitation; 1675 Greenwich Observatory foundedin London; 1687 Newton's "Principia" published; 1781 Herschel discovers Uranus; Charles Messier

publishes his catalogue of nebulae and binary

scopic observation, Kepler publishes his first

stars in 1802; 1838 Friedrich Bessel measures the distance to a star; 1846 Johann Galle discovers Neptune; 1905 Einstein publishes his special theory of relativity and general theory of relativity in 1916; 1925 Hubble

discovers galaxies outside our own; 1930 Clyde Tombaugh discovers Pluto. Radio Astronomy came into being in the most unexpected manner. In 1931, Karl

Jansky, a US radio engineer working with Bell Laboratory, noticed a steady stream of radiation coming in from outer space. However, an amateur radio operator in the U.S., Grote Reber, set out by himself to learn more about this extraterrestrial phenomenon. In 1937, he built the world's first radio telescope—a 9.58 m parabolic dish—and set it up in his backyard at Wheaton, Illinois. In 1940 he produced a radio map of the sky, the first of

astronomy was born-Radio Astronomy.

The radio telescope is in many ways analogous to the optical telescope. It consists of a large metal reflector fitted with an antenna. The metal reflector collects and focuses radio energy on to the antenna which can be tuned to any desired frequency. Of all the invisible rays streaming in from outer space, only radio

its kind in the world. Thus a new branch of

waves reach us at ground level, through the so-called radio-window. Other rays are blocked by the atmosphere. Radio astronomers pick up radio waves from outer space with specially designed radio telescopes. The signals are amplified billions of times before fed into the computer which analyse them and display the image as False-colour radio pictures.

Radar astronomy was born in 1940, when a Hungarian physicist Zoltan Bay sent out a beam of microwaves to the moon and recorded the echo.

Satellite astronomy: When Explorer-1 was launched in 1958 by US with a special instrument two doughnut shaped regions of intense radiation around the Earth (called Van Allen Belt) were discovered. This was how satellite astronomy started.

The invisible rays given out by stars and galaxies belong to the same family of rays. They are all electromagnetic waves, and form what is called the electromagnetic spectrum. The crucial difference between them is that they have different wavelengths (the waves include X-rays, ultraviolet rays, visible light, infrared rays, microwaves and radio waves).

Now satellites have made it possible to study astral phenomena from two levels—from the ground and from above the atmosphere. This has led to the emergence of many specialised fields in astronomy—X-ray, ultra-violet, gamma ray and infra-red.

The Hubble Revolution: The 11 tonne, Hubble Telescope, built at a cost of US \$ 1.5 billion, is the most powerful optical tele-

Penetsene

Ground breaking= new and different; Earth shattering = it's revolutionary; Down to earth = no nonsense, unpretentious; Down and dirty= no frills, basics; Global = overall; all encompassing. e ever developed and launched in 1990. New Millennium Probe series are the essors to Hubble Telescope.

xies

I together by force of gravity. They are so that they are also called 'island universes'. dies of distant spaces with optical and radio escopes indicate that there may be about thillion galaxies in the visible Universe. Ilaxies seem to be scattered in space. Galaxiend to be grouped together into clusters, and some clusters appear to be grouped into specdusters. All the galaxies we look at will isplay red shift in their spectra, indicating hey are moving from from us. Current data uggest that the galaxies are moving apart at the rate of 50-100 kps for every million parsecs

of distance. A structural analysis of the known galaxies brings out three major forms-spiral, elliptical, and irregular. Spiral galaxies have a central nucleus with great spiral arms trailing round it. The Milky Way and the Andromeda Galaxy belong to this group. A special type of spiral galaxies is what are called barred spirals which have a central bar as a nucleus. The spirals comprise some 80% of the galaxies so far known. Elliptical galaxies show purely elliptical shape without any spiral arms. They range in shape from spherical ellipticals to extremely saucer-shaped ones and account for about 17 % of the known galaxies. Irregulars, as the name suggests, show no definite geometric pattern or shape.

The Milky Way The Milky Way is our home galaxy. Our galaxy forms part of a group of about 24 galaxies travelling through space together. On a grander scale, this group forms part of bigger cluster of 1000s of galaxies.

'

ø

13

A peculiar feature of this galaxy is a bright band of light that runs almost in a perfect circle through it. Actually it is made up of

而绝到追译的运

• Refracting (lens) Opticals Yerges (1), servatory - 1m at Williams Ray, VII, 155A.
• Reflecting (mirror) Opticals Kerk - 16m on Mauna Kea in Hawaii (segmented mirror; 2 equal-size telescopes), • Space Telescope: Hu-bble Telescope - 2.4m, • Fully Steerable Radio Dish: Robert C. Byrd Green Bank Telescope 100m in West Virginia, USA. • Single Radio Dish: Arecibo Observatory- 305m in Puerto Rico.

Radio Interferometer: 10 telescopes of the Very Long Baseline Array, scattered from Hawaii to the Virgin Islands with a resolution equal to a radio dish of 8000 km.

millions of scintillating stars which seen from far away, seems to be placed in close proximity to one another. This river of light is known as the Akash Ganga or Milky Way – the term is now applied to the galaxy as a whole.

The Milky Way is a spiral galaxy. The main body is a disc 100,000 light years across with a globular nucleus of about 16,000 light years in diameter (thick at its centre) and far-stretching spiral arms (in one of which our solar system is located). The Milky Way consists of hundreds of billions of stars rotating about its centre in a stately average period of some 230 million years.

Our galactic nucleus is about 32,000 light years from the Sun. It appears to be a rotating disc of gas. In this rotating disc massive activities are going on. Here, new stars are being born continually. The area is already crowded with full grown stars.

So where is Andromeda? Until recently the Great Nebula in Andromeda, was thought to be part of our Milky Way Galaxy. We now know that Andromeda is an Ex-

as a few hours to as long as 1000 days or more. Generally speaking, the slower the bright-dull-bright cycle, the higher the luminosity.

Quasars are powerful quasi stellar sources of radio radiations.

Pulsars are variable stars which emit regular pulses of electro-magnetic waves of very short duration.

Black Hole

Strange things happen to a star at the end of its life if its mass is more than 3-times the mass of the Sun. It will collapse, becoming more and more compact. The collapse continues until the star becomes so dense that nothing, not even light, can escape from its gravity. Hence the object is dark and can't be viewed directly. According to General Relativity, bodies of matter curve space. If the body of matter was very dense (tons of matter packed into a small space), it convulses space into an infinitely deep chasm, called a black hole. John Wheeler, a US physicist, first used the term 'black hole' for a completely collapsed star at a meeting at the Institute for Space, NY, in 1967.

Size of the Universe

No one knows whether the Universe is finite or infinite in size. Albert Einstein described the Universe as 'finite but unbound,' meaning that the frontiers cannot be observed even though they are definitely there.

Age of the Universe

Cosmology, the science of the large scale structure of the Universe, came of age in the 20th century when Einstein produced in 1915 the general theory of relativity which had sufficient maturity to construct mathematical models of the Universe. The answers to questions about the age of the Universe in the 1930s and '40s was based on Edwin Hubble's

जुरावर शेववविशाह

1960: R-16- Soviet 2-stage rocket exploded in Tyuratan on the launch pad, killing the chief and ground staff;

1966: Gemini 8 - got out of control after docking with orbiting spacecraft Agena, but managed to return alive;

1967: Apollo 1-Three astronauts undergoing training in the command module were killed following a huge fire and asphyxiation. Soyuz 1- Cosmonaut Vladamir Komarov while exiting his failed space mission crashed on to the ground at high speed after both the parachutes failed to open;

1969: Soyuz 5- While preparing for earth re-entry the equipment module not only failed but blocked the heat shield making it out of control. Though it was a near-fatal landing, Cosmonaut Volynov ejected out of the module:

1970: Apollo 13 suffered an oxygen tank explosion losing its main power supply while on moon mission. The crew was rescued using the lunar lander:

1971: Soyuz 11-Three Cosmonauts died while trying to separate the reentry capsule and the spacecraft through an explosion which resulted in leakage of oxygen chamber;

1980: A Vostok rocket exploded on the launch pad while refueling, killing 50 at Plesetsk Space Centre, Russia;

1986: Space Shuttle Challenger: six astronauts including a high school teacher died in a fueltank explosion; 2003: Colum! Shuttle

broke up on remembers includ

Toessessus statedult

space-science program for the next decade. Its mission is to uncloak the invisible structures of the early universe. With a gold-coated primary mirror that is seven times larger than Hubble's, besides instruments sensitive to infrared radiation, JWST is intended to answer questions

The James Webb Space Telescope (JWST) is the crown jewel of NASA's

beyond.

The telescope's most impressive feature is sheer size. At the observatory's

raised by Hubble's galaxy-stuffed deep-

field sky surveys. It will peer at what lies

orite shield that is as large as a tennis court. Perched above, panels fit together like flower petals to render the telescope's 6.5 meter prime mirror. No launch vehicle is big enough to carry the telescope as it is, so it's designed to unfold in orbit, as in origami.

base is a five-layer Sun and micromete-

The JWST was displayed in Orlando, Florida, where the International Society of Optical Engineering wrapped up its biannual conference in 2006. The project cost is \$4.5 billion and is scheduled for launch in 2013.

rent estimate of the age of the Universe is about 13 billion years. The 60 odd- years following Hubble's original findings have seen numerous revisions of the constant. It was in the midst of this chaos that the Hubble space telescope was launched in 1990, rightly chose as its key project – the measurement of the Hubble constant. The space telescope has

own measurements of his constant. The cur-

a decided edge over ground-based telescope in imaging and resolution of very faint objects. The Hubble's constant as measured by the space telescope was on the high side

implying a rather young Universe - also

depending on what theoretical mode is ac-

cepted. Scientists say the Universe could be

just 8 billion years old if the Hubble constant

is precisely 80.

มูทออุกอน จุฬอรุลเม

The Solar System is centred on the Sun. It consists of a star called the Sun and all the objects that travel around it. The Solar System includes: • 8 planets (Mercury, Venus, Earth, Mars, Jupiter, Saturn, Uranus, Neptune) and 4 Dwarf planets - Pluto, Charon, Eris, Ceres - along with the numerous satellites that travel around most of them • planet-like objects called asteroids (hun-

dreds of asteroids) • chunks of iron and stone

called meteoroids • bodies of dust and foreign gases called comets (thousands of comets); and • drifting particles called interplanetary dust and electrically charged gas called plasma that together make up the interplanetary medium.

Interplanetary Space The whole solar system by volume appears to be an empty void. This vacuum of "space" comprises the interplanetary medium. It includes various forms

nts: interplanetary dust and interplanetary s. Interplanetary dust consists of microopic solid particles. Interplanetary gas is a nuous flow of gas and charged particles. ostly protons and electrons-plasma-which ream from the Sun, called the solar wind. he solar wind can be measured by spaceraft, and it has a large effect on comet tails. also has a measurable effect on the motion of spacecraft, communication systems on arth, electrical transmission, etc. The speed of the solar wind is about 400 kilometres per second in the vicinity of Earths' orbit. The point at which the solar wind meets the interstellar medium, which is the "solar" wind from other stars, is called the heliopause—is an imaginary boundary theorised to be roughly circular or teardrop-shaped, where the Sun's influence cease, at perhaps 100 AU from the Sun. The space within the boundary of the heliopause, containing the Sun and Solar System, is referred to as the heliosphere. The solar magnetic field extends outward into interplanetary space; it can be measured on Earth and by spacecraft. The solar magnetic field is the dominating magnetic field throughout the interplanetary regions of the solar system, except in the immediate environment of planets which have their own magnetic fields

Kuiper Belt

The Kuiper Belt is a disk-shaped region hast the orbit of Neptune roughly 30 to 100 to

Kuiper Belt objects & the Oort Cloud Jan Oort's orbital calculations done in 1950

T. Follow Fr. C.	Dates 1
Distance from the Farth"	149,8 million km
Absolute Visual Magnitude	4./1.
Diameter	1,384,000 km
Core Temperature	15 000 000 K
Photosphere Temperature	5770 K
Rotation as seen from the Ea	rth
(at the Equator)	25,38 days
(near the poles)	33 days
Chemical Composition	_
Hydrogen	71%
Helium	26,5%
Other Elements	2.5%
Age 4.5 t	oillion years aprox.
Expected lifetime of a norma	al star10billionyears
аргох.	
Mass	330,000x Earth's
mass	

The mean distance from the Earth to the Sun (150 million km) translated into flying hours means that a jet aircraft capable of 1000 km/hr would need more than 17 years of non-stop flying to reach the Sun:

showed that a huge spherical "cloud" (now called the Oort Cloud) of perhaps a trillion or more comets orbit the Sun far beyond the orbit of Pluto from about 30,000 AU to a light-year or more. This is the source of the long-period comets. It is now considered to be source of the short-period comets of less than 200 years. Occasionally the orbit of a Kuiper Belt object will be disturbed by the interactions of the giant planets in such a way as to cause it to cross the orbit of Neptune. There are presently few known objects orbiting between Jupiter and Neptune. The IAU has designated this class of objects as Centaurs. These orbits are not stable and their destiny is not known. Those that didn't escape entirely formed the distant Oort Cloud. Small objects formed farther out had no such interactions and remained as the Kuiper Belt. Several Kuiper Belt objects have been discovered recently. They appear to be small icy bodies. It is estimated that there are at least 35,000 Kuiper Belt objects greater than 100 km in diameter, which is several hundred times the number (and mass) of similar sized objects in the main asteroid belt.

Origin

The Solar System originated in a primitive solar nebula—a rotating disc of gas and dust. It is from this rotating disc that the planets and the rest of the Solar System evolved. The Solar System is also tucked away in a corner of the Milky Way at a distance of about 30,000

galaxy.

The Sun contains 99.85% of all the matter in the Solar System. The planets which condensed out of the same disk of material that formed the Sun, contains only 0.135% of the

to 33,000 light years from the centre of the

Jupiter contains more than twice the matter of all the other planets combined. Satellites of the planets, comets, asteroids, mete-

mass of the Solar System.

oroids, and the interplanetary medium constitute the remaining 0.015%.

[Sun- 99.85%;

Planets - 0.135%; Comets - 0.01%;

Satellites- 0.00005%;

Meteoroids- 0.0000001%;

Interplanetary medium- 0.0000001%]

The Sun

The Sun is one of more than 100 billion stars in the giant spiral galaxy called the Milky Way. The Sun is the centre of the Solar System. Its mass is about 740 times as much as that of all the planets combined. The huge mass of the Sun creates the gravitation that keeps the other objects travelling around it in an orderly manner.

The Sun continuously gives off energy in several forms-visible light; invisible infrared, ultra-violet, X-rays and gamma rays, cosmic

Drotes on the ISS.

space exploration. Instead of launching one big, heavy satellite to do a job, why not launch many little ones? Droids can orbit Earth in tandem, each doing their own small part of the overall mission. If a solar flare zaps one satellite:no problem! The rest can close ranks and carry on. Launch costs are reduced, too, because tiny satellites can be packed alongside larger payloads, getting to space almost free of charge. Of course, there is a problem: flying in formation is trickler than it sounds and getting a group of orbiting satellites to do a

Tiny satellites are a hot new idea in

NASA has already sent one of the three droids to the ISS. The initial challenge was to design a small, roughly spherical robot that could float aboard the ISS and manoeuvre using compressed CO₂ thrusters. The project, called SPHERES

formation is extremely hard.

(Synchronised Position Hold Engage Reorient Experimental Satellite), serves as a test bed for trying out experimental software to control clusters of satellites.

The first SPHERE arrived on the ISS in April 2006 tucked inside a Progress supply rocket. Eventually two more SPHERES, differentiated by colour, would go on the future shuttle missions. "Red" is already busy. Scientists have commanded it to do a variety of manoeuvres—loops and turns. Astronauts tried to trick Red by causing one of its thrusters to stick "on." The robot diagnosed the fault, turned the thruster off, and returned to station-keeping.

In the future, NASA may use the technique to assemble a moon-ship piece by piece in Earth orbit. The software designed to control small satellites could just as well be used to manoeuvre the pieces of a spaceship together.



rays, radio waves and plasma. The Sun and the neighbouring stars generally move in almost circular orbits around the galactic centre at an average speed of about 250 km per second.

The Sun, at this rate, takes 250 million years to complete one revolution round the centre. This period is now called a *cosmic year*.

Like all other stars, the Sun is composed mainly of hydrogen. Its energy is generated by nuclear fusion in its interior. It is calculated that the Sun consumes about a trillion pounds of hydrogen every second. At this rate, it is expected to burn out its stock of hydrogen in about 5 billion years and turn into a red giant. The prospect is frightening.

When the Sun turns into a red giant, it will have swelled a hundred times in diameter and increased a thousand times in brightness-bright red. It will then occupy about 25% of the horizon. The nearest planets, Mercury and Venus, will melt. The oceans of the Earth will evaporate and disappear. The Earth will remain a barren rock, heated to the

nuclear reactions take once the leaders is around 15 million begrees in the core is estimated at a function of water. Outside the core is estimated at a function of gase one to be a function of gase one port the energy generous in the photosphere. They with a function of a contract of a contract of a corona is made up of a contract of a corona is made up of a contract of the photosphere. Superfrom the corona is made up of a contract of the photosphere of a contract of the photosphere. Superfrom the corona is made up of a contract of the photosphere of the following and the following the following and with the contract of the following the first of the sour contracts of the following the first of the sour contracts of the following the first of the following the first of the following the first of the following the first of the following the first of the following the first of the following the first of the following the first of the following the first of the following the first of the following the first of the firs

The Sun is constant and a sits substance. The substance is a substance is a substance is a substance. Sometimes research are then see a substance is a substance in the substance is a substance in the substance in the substance is a substance in the substance in the substance is a substance in the substance in the substance is a substance in the substance in the substance is a substance in the substance in the substance is a substance in the substance in the substance in the substance in the substance in the substance is a substance in the substance in the substance in the substance is a substance in the substan

	- 4			The Nearest Stars
Solar System: As we know	m: As we kn	MOI		Star Distance (light years)
Planet Superlatives	a district	9	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	440
Fastest orbiting planet:	Mercury	Most circular orbit: Shortest (synodic) day:	venus Iupiter	4. Wolf 359 (CN Leonis) 7.80 5. Lalande 21185
Longest (synodic) day:	_	Hottest Planet:	Venus	6. UV Cett A &B 8.55
Most Moons:	_	No Moons:	Mercury, Venus	H Andromedae) 1
Planet with largest moon:		Planet with moon with most eccentric orbit:	Neptune	9, CX &CQ Andromedae 11,22
Greatest av. density:	Jupiter Lo	Lowest av. density:	Saturn	
Tallest mountain:		Deepest oceans:	Jupiter	Total Solar Eclipses 2002–2010
suorigest magnetic fields:	Jupiter G	Greatest amount of liquid on the surface:	Earth	Date Visible from parts of
				2002
Dwarf Planets				8 Apr. 2005 S&C Pacific, C. America 29 Mar, 2006 C. Adande, W&N Africa, C. Asia
Pluto	Charon	Eris (2003 UB113 / Xena)	Į	
Dlameter: 2,360 km	Charon, largest of the three moons	_	Ceres, discovered in 1801, the	11 Jul, 2010 S. Pacific
Moons:3. Charon, Nix, Hydra. Density: 2.06 g/cm cube	of Pluto, Is a large icy body in the	Diameter: 2,397 kms (approx), it is slightly	first asteroid discovered in the	Uranus
Average distance to the Sun:	Aulper Belt -	bigger than Pluto - an icy body that resides in		
Time to orbit the sun: 247,70 years.	bodies - beyond Nentune	the huper beit - with thousands of libating ice-	Jupiter, to be considered as a	Diameter: 52,076 km. Moons: 27.
,	100000000000000000000000000000000000000		planet	Density:1.32g/cm cube
			\	Average distance to the Sunfame? 852 8 million
		-		Time to orbit the Sun:
				Waters Hanne to the contra
Neptune		her.		planet that lies on its side.
				One pole, then the other,
Mobins: 13. Triton is the largest			19	ager-II found afthe dark, com-
		a de la constantina della cons		pact fings around the planet and
Average distance to the sun: 4,497 mil	nillion km.			a corlscrew-shaped magnetic field
thing to other the suffit of ou years.		No. of the second		that stretches millions of kms. It is

one of the coldest With an average

It is denser & little smaller than Uranus. Neptune's atmosphere appear blue, with quickly changing white icy methate clouds often superdeel high above an apparent suffect. In this apparent suffects was the country of the Daik Syon, a giant soon where whole blooks 3.2000 Mills. It has apparent suffect, in this apparent suffect were found a Great Daik Syon, a giant super where whole blooks 3.2000 Mills. It has a counterforcewhere resultion as seen in a high receiving system in the Juplier's couthern hemisphere. Amonphere constituents are mostly hydrocarbon

temperature of -223%. It is made of mainly hydrogen and has a barren landscape anart from frozen methans

Mameter, 119,296 km.

Density: 0,69 g/cm cube

of thousands of rippling, spiralling bands of ity rock and dust. Just 200m thick and 270, 000 km in diameter. The moon Titan the celebrated rings of the golden glant Saturn are composed has a nitrogen atmosphere and hydrocarbons - the necessities second largest planet of the Solat System. Voyager 1 found that Average distance to the sun: 1,417.6 million km. Time to the orbit the sun: 29.46 years. of life - but no signs of Titanites.

Annual Major Meteor Showers

Asteroids A recent estimate is that there may be well over 40,000

Name	Dates of Hourly rate maximum	≗
Quadrantids	34 Jan 1	8
Lyrids	21-22 Apr	2
Eta Aquarids	5-6 May	35
Delta Aquarids	•	2
Perseids	12-13 Aug	2
Orionids	. •	23
Taurids		9
Leonids	207	2
Geminids	13-14 Dec ;	2

steroids orbiting the Sun.

Mercur

Diameter: 4,849.6 km. Moons: none.

Average distance to the sun: 57.6 million km. Density: 5.43 q/cm cube

Tiny Mercury, slightly larger than Earth's moon, races along its elliptical orbit at 176,000 km per hour - a speed that keeps it from being drawn into the sun's gravity field. The cratered planet has no Time to orbit the sun: 87.97 days.

atmosphere; days are scorching hot and nights, frigid. It hasthe greatest temperature extremes, ranging from -200°c to 430°c. It's

gravity is very weak (compared to Earth)

Dwarf planets: 4. Pluto, Charon,

Diameter: 1,384,000 km.

Age: 4.5 billion years.

A rather ordinary, middle-age star, the gaseous sun may reach a tem-

Jensity: 1.41 g/cm cube

ins, Ceres Janets: 8

Venus

 Diameter:12,032 km. Moons: none.

Density:5.24 g/cm cube Average distance to the sun: 107.52 million km. Time to orbit the sun:

224.70 days.

The only planet in the solar system to support life. Surface Area (510,066,000 sq km) Estimated Age 4.5 billion years

lupiter

O · • Dlameter: 141,968 km.

Average distance to the sun: 772.8 Ganymede, Callisto, Io, Europa) Time to orbit the sun:11 86 years. Moons:60. (4 large ones-Density: 1.33 g/cm cube million km.

the Great Red Spot on the solar system's showed it is an enormous eddy in the turbulent cloud cover. They also spoted dusty rings, three new moons Two Pioneer space probes photographed argest planet. Voyagers 1 and 2 later and volcanoes on the Moon, Io.

Average distance to the Sun: 225.6 Moons: 2. Phobos, Deimos Density: 3.93 g/cm cube Diameter: 6,755.2 km. million km.

The Viking probes or path find-Ilme to orbit the sun: 687 days.

ers failed to find any sign of

life. Beneath its thin atmoswith pink soil and boulders. Long ago it was more active: phere, Mars is barren, covered the surface is marked with dor-

mant volcanoes and deep chasms where water once freely flowed

Earth

Diameter: 12,739.2 km. Moons: 1.

Average distance to the sun:149.8 million km Time to orbit the sun: 365.30 days. Density: 5,52 g/cm cube. Estimated Weight (mass)

(5,940,000,000,000,000,000,000 metric tons)

perature of 15.4°c million degrees elslus at its core, 258 THE COSMOS

from the surface.

the solar wind travels in spirals and carries with it magnetic fields. The Earth's magnetic

disappear. Gases often shoot up violently

a 11-year cycle. Owing to the Sun's rotation,

Solar activity has been observed to follow

field—the magnetosphere—acts as a shield against the ever-blowing solar wind and deflects it away from the Earth. Nevertheless, particles of solar wind sometimes pierce the

magnetic shield and enter the upper atmo-

sphere, where, like the solar flares, they cause auroral displays. The solar wind distorts the shape of the magnetosphere. The magnetosphere ex-

tends to a distance of 64,000 km above the Earth—10 times the radius of the Earth. On the part of the Earth exposed to the Sun (the sunlit side), the solar wind sweeps along the magnetosphere past the Earth, On the other side of the Earth (the night side), the solar

wind converges again and compresses the

magnetic field into a plume or tail, more or

less like what it does to comets. The tail thus

formed extends to over 6 million km on the night side of the Earth. Sunspots are dark patches noticed on the surface of the Sun. They appear dark because they are cooler (around 1500°C) than the surface of the Sun which has a temperature of

about 6000°C. The largest spot ever measured (April, 1974) covered 18,130 million sq kms or approximately 0.7 % of the Sun's visible surface. The life periods of these spots also vary. They may last from a few hours to

many weeks. Polar Auroras are two auroras, the Aurora Borealis or Northern Lights and the Aurora Australis or Southern Lights. These are lights that sweep across the sky in waves or streamers or folds. They are very often multicoloured and provide one of the finest spec-

tacles in nature. They occur in the Arctic and

The magnetosphere is the earth's magnetic shield. It was at first called the Van Allen Belts after the American physicist, James Van Allen who discovered them in 1959, Van

Lights as far north as Australia.

New Orleans in America and the Southern

Allen, in analysing the data from the earlier Explorer and Pioneer rockets found two belts of high intensity radiation in the upper atmosphere. Pioneer 12 later showed that these belts were a part of a large band of radiation

called the magnetosphere. It extended far

out to about 64,000 kilometres from the

Earth's surface. The Planets

The planets are large celestial bodies in orbit around a star, composed of rock, metals and gases. In the Solar System, the inner planets are Mercury, Venus, Earth and Mars.

and the densest of all planets. All the inner four planets are dense rocky bodies and are collectively called terrestrial planets (Earthlike). They appear to chiefly consist of iron and rock. The outer planets, Jupiter, Saturn, Uranus

The Earth is the largest of the inner planets

and Neptune are very big (sometimes called giant planets), with large satellite families. They are composed mostly of hydrogen, helium, ammonia and methane. These planets

are called Jovian, after Jove, the Greek name for Jupiter, because they resemble Jupiter in many aspects. The two largest planets, Jupi-

ter and Saturn send out radiation. Jupiter's radio waves are so strong that they can be picked up on Earth by radio telescopes. All of them rotate furiously, have dense atmospheres and consist of far lighter elements (contain little iron and rock) than the terrestrial inner planets. The outermost planet Pluto is in a class by itself. It is supposed to be a dense

planet like the inner planets, although it is the

farthest of the outer planets. Rotating on their own axes, the planets

the Antarctic regions respectively. But the

Managama Vaarbaak 2007

Northern Lights can be seen as far south as

is 11 to 5.

nearer to the Earth than the Sun, exerts a greater influence on the tides. It takes only 1.3 seconds for moonlight to reach the Earth, whereas sunlight takes as much as 8 minutes 16.6 seconds to reach us. This being so, the ratio of lunar and solar power for tide-raising

sible for the tides on earth. The Moon, being

Moon are about the same age as the Earth (about 4,600 million years old). The rocks from the maria turned out to be basaltic lava, similar to volcanic rocks found on the Earth.

The oldest rocks and soil samples from the

A surprising finding was, while terrestrial igneous rocks contained only about 1% of titanium, the lunar rocks showed 10 times as much. A few minerals unknown on Earth were found in the mare (dark areas on the Moon basalts. Among these is Armalcolite, a new name derived from the names of the astronauts-Armstrong, Aldrin and Collins

and the name of the area Tranquillititis.

The lunar rocks were bone-dry, with no trace of water in any form and no trace of any organic matter. So also, volatile elements (elements with low boiling points) like Sodium, Potassium, Chlorine, Germanium, Lead and Mercury were practically non-existent. The depletion of Sodium and Potassium is significant, because these two are among the most abundant elements found in terrestrial rocks

Comets

Comets probably derive their name from their tail, as in Latin 'comets' means "long-haired." Comets may originate in a huge cloud called the Oort Cloud that is supposed to surround Solar System. Extremely bright comets such as Hale-Bopp are rare. Not all comets have tails. The tail takes shape only when the comet gets close to the Sun. When first viewed through a telescope the bright head of a comet, called Coma, looks like a hazy dot. Sometimes a coma contains a star-like point called a Nucleus. The nucleus of a

comet is extremely small. Solar energy warms comet's head as it moves sunward and vapourises the frozen-crystalised gases. These gases stream out and form a spectacular, glowing tail behind the comet's head. As the comet approaches the Sun the solar wind, which consists of high-speed atomic nuclei, protons, and electrons, sweeps cometary gases away from the Sun, producing a straight tail of up to 150 m kms in length. At maximum size the tail may be 250m km in length. The tail attains maximum length and brightness soon after the comet has passed its perihelion. Some comets may become so bright as to be visible even in daylight. Comet tails always point away from the Sun because of the force exerted by solar wind and radiation on the cometary material. If the supply of gases from the nucleus changes, a comet can brighten or fade unexpectedly, making it difficult for astronomers to predict how bright a comet will become. (When the comet approaches the Sun the tail follows the head and when it recedes, the tail precedes the head.) Sometimes a second tail consisting of dust particles may also appear. This dust tail is shorter and more curved than the gas tail. Some comets have been observed to develop as many as nine tails.

Planet Names

	i lance i valines
The planes gods:	ts were named after the Roman
Mercury	god of commerce,
	eloquence, skill
Venus	goddess of spring,
•	bloom, beauty
Mars	god of war
Jupiter	ruler of gods and all men
Saturn	god of agriculture
Uranus	god of heavens
Neptune	god of the sea
Pluto	god of the under
	-

world and death

....

निवान क्रियार विवास

n August 24 2006, about 2,500 scien tists at The International Astronomical Union's (IAU) meeting in Prague adopted historic new guidelines that demoted. Pluto - the smallest, and most distant planet, to a secondary category.

The status of Pluto discovered in 1930 by the American Clyde Tombaugh, has been contested for many years.

In the Czech capital, astronomers waved yellow ballot papers in the air, in the IAU vote - and in the process took the historic decision to relegate Pluto.

The need for a strict definition was deemed necessary after new telescope technologies began to reveal far-off objects that rivalled Pluto in size. Without a new nomenclature, these discoveries raised the prospect that textbooks could soon be talking about 50 or more planets in the Solar System.

The scientists agreed that for a celestial body to qualify as a planet, it ...

- must be in orbit around the Sun
- must be large enough that it takes on a nearly round shape
- has cleared its orbit of other objects because its highly elliptical orbit overlaps that of Neptune
- has to dominate its orbit around the Sun in the same way as the other planets.

Pluto will now on be referred to as a "dwarf planet". The critical blow for Pluto came with the discovery three years ago of an object currently designated 2003 UB313. Hubble Space Telescope measured 2003 UB313, also called Xena, in diameter slightly bigger than Pluto: 2390 kms and 2360km

respectively. 2003 UB313 now joins Pluto

in the dwarf category, along with Pluto's major moon, Charon, and the biggest asteroid in the Solar System, Ceres.

The Other Definitions:

Dwarf planet: A planet smaller than Mercury (diameter: 4879 kilometres), which is the smallest uncontested planet. It would include the former asteroid Ceres, Pluto, Charon and Xena.

Pluton: Aplanet orbiting beyond Neptune, taking more than 200 earth years to circle the Sun. So far, it would include Pluto; Pluto's former moon, Charon; and "Xena" (2003 UB313).

Satellite: Anything orbiting a planet, as long as the mutual centre of gravity does not fall outside the planet. It includes several bodies much larger than many planets, such as Jupiter's moon Ganymede (diameter: 5262 kilometres).

Small solar system body: Anything orbiting the Sun that's not a planet or a satellite. Most asteroids and comets would be SSSBs. Currently they are called minor planets.

Currently they are called minor planets.

Unofficial categories of planet:

Giant planets: Jupiter, Saturn, Uranus and Neptune.

Classical planets: The four giant planets plus the familiar four rocky, terrestrial planets: Mercury, Venus, Earth and Mars.

Dwarf Planets

Pluto : TNO

Charon : TNO

2003 UB 313 (Xena) : TNO

Ceres : Ateroid
*TNO - Trans Neptune Objects in the Kupler Belt

The earliest systematic theory of the Universe was the geocentric (geo = Earth) theory. According to this theory, the Earth is the unmoving centre of the universe, round which the Sun and the stars and all other heavenly bodies revolve.

Sir Isaac Newton (1642-1726) dealt the last blow at the geocentric theory. He formu-

lated the law of gravitation and correlated it with his laws of motion. His book Philosophiae Naturallis Principia Mathematica (known shortly as Principia) marks a turning point in the history of astronomical thought.

Modern theories on the formation of the Earth and other planets are of course based on the Copernican theory.

The age of the Earth was a matter of speculation till very recent times. It was only about 200 years ago, that scientific enquiries were started by geologists. According to their deductions, based on the study of rocks, the age of the Earth is 4.6 billion years.

Globe

Aglobe is a small model of Earth, shaped oblate spheroid - flatened at the top and bottom and bulging in the middle. In order to represent the Earth accurately, a grid of imaginary lines with equal interval is prepared. Imaginary lines that runs east and west around Earth, parallel to the equator, are called parallels/

latitudes. They pin-point the exact location of a place, or how far it is from the equator. Equator is constant at 0 degree latitude, equidistant from both poles. Moving farther north or south, the latitude increases. The North Pole is at 90 degrees north latitude. The South Pole is at 90 degrees south latitude. 23 and half degrees North latitude is called the Tropic of

)~	(main)	I.F.
e	Surface area	570100.500 saikt
a	Land surface (29.1%)	148 951 300 xx cm
z	Ocean surface (70.5%)	三年 757 年 一元
f	Total water area	332 572 300 an km
	; Type of water	العاد والاعتادة
	Equatorial circumference	42 15 5
•	Polar circumference	33 FFT 27
ì	Equatorial clameter	HE T
	Folar diameter	272
	Equatorial radius	4 II 4 cm
	Polar radius	fill c
	Mass (estimated weight)	5 940 000 000 000
	Non-diameter (CCC	CCC CCC TELES THE
į	mentale remain the 30h	145 417 005 July
	Earth's Orbit Speed (around Sun)	77 125 mm
!	Period of Parciution	365 2255
ļ	(round the Sun)	45 m. A. S. 186
1	Time of Rotation.	
1	(Cit grown sept) 3-2	Tal 55 4 75 per
ļ	The same of the same	المستور التراسب الماما معادا
1	(from the place of the econic	
į	Speed of Rocket	
-	الم الخصية الا تساعة وعلاد	E CT - THE SECTION
1	garty and turies up into the	
1	बाद्धां हर्	
1	gate Aquan	
Ì	CE THE TENTO THE AND	يرمان يميتن اسب سر
	for teleting nement	
1		
Ì	Composition of the Sarth	
1	AUTHUR CASE THE	and the second of the second
1	gen (22%), Calcium (* 20%)	man and a second a
ĺ	gen (22%), Calcium (12%), 12% (17%), Iron (25%)	سر پیاسپیدادا را در د

This is now in come as a section of the section of

Cancer and 23 and half degrees South latitude is called Tropic of Capricon.

There are two times in a year when the Sun is furthest North or South of equator: summer solstice, ie, 21 June with longer day time in N. Hemisphere or winter solstice, ie, about 22

December with longer night time in the N. Hemisphere. Similarly there are two times in year, either around 21 June (spring/vernal equinox) and 22 September (vernal equinox), when the Sun crosses the equator and

Imaginary lines that run north and south around the globe, from one pole to the other, are called meridians/longitudes. They inform us the degree of longitude, or how far east or west a place is from an imaginary line called the Greenwich meridian or prime meridian (0

degree). 180 degree is called the Interna-

tional Date Line crossing which a date changes.

we have day and night of equal length or

Inside Farth

duration.

Our knowledge of the internal structure of the Earth is derived from studies of earth-quakes. The shock waves sent out by an earth-quake indicate the physical nature of the regions through which they pass. These studies show that the centre of the Earth is a solid core—the *Inner Core*. The density of this core is about 13 g to the cubic centimetre. The Inner Core is about 1370 km thick and is surrounded by an *Outer Core* of around 2,080 km. The Outer Core appears to be molten.

The Outer Core is surrounded by the Mantle which has a thickness of around 2900 km. The Mantle is topped by the crust of the Earth, which varies widely in thickness—from 12 to 60 km. At the centre or the Inner Core, that is at a depth of some 6,370 km, temperature goes up to some 4,000°C and pressure reaches nearly 4 million atmospheres.

The mantle is important in many ways. It

accounts for nearly half the radius of the Earth (2 900 km), 83% of its volume and 67% of its mass. The dynamic processes which determine the movements of the crust plates are powered by the mantle.

Starting at an average depth of from 45 to 56 km below the top surface of the Earth, the mantle continues to a depth of 2,900 km where it joins the outer core. The mantle is a shell of red hot rock and separates the Earth's metallic and partly melted core (both the

inner and the outer cores) from the cooler

It is composed of silicate minerals rich in magnesium and iron. The density of the mantle increases with depth from about 3.5 grams per cubic centimetre to around 5.5 grams, near the outer core.

rocks of the Earth's crust.

The upper portion of the mantle, about 250 km thick, is called the Asthenosphere. Here the rocks are partially melted, with thin films of liquid distributed between the mineral grains. The red hot nature of the lower mantle and the partially melted nature of the upper mantle (asthenosphere) combine to make the whole mantle plastic or yielding. It is on this plastic base that the top crust of the Earth (of oceans and continents) that is to say,

the lithosphere, rests. The lithosphere is dis-

tinguished from the asthenosphere by the

fact that it is cooler and therefore, more rigid.

The top layer of the lithosphere virtually floats on the asthenosphere. Like other floating bodies the crust seeks an equilibrium riding deeper where it is heavier and rising higher where it is lighter. The mountains on the crust have deep roots of light material to support them and when the load on any part of the crust changes, the surface responds by

The outer surface of the Earth is divided into 4 spheres:

Lithosphere means the entire top crust of the Earth and includes not only the land surface but also the ocean floor.

rising or sinking to restore the equilibrium.

Hydrosphere is the water surface which includes the oceans, lakes and rivers.

Atmosphere is the blanket of air that envelops the Earth. It covers both the land surface and the water surface.

Biosphere is the sphere of life which spreads over all the three other spheres.

Seasons

The earth's axis is inclined at an angle of 66.5° to the plane of its orbit. As a result of this, the earth is in different positions while revolving around the sun. During the first half of the year the northern hemisphere tilts towards the sun resulting in the season of summer in the region. During the second half of the year the southern hemisphere tilts towards the sun, and thus experiences summer and the northern hemisphere experiences winter during this period.

The revolution causes the four seasons

(a) Spring When the sun is directly overhead the equator (b) Summer When the sun is directly over the tropic of Cancer—the North Temperate Zone experiences summer.

(c) Autumn When the sun returns to the equator, the North Temperate Zone experiences the season of autumn. (d) Winter The sun is at the tropic of Capricorn and the north temperate zone experiences winter.

Equinoxes are dates when the nights and days are equal. During these days the sun shines directly over the equator. March 21 is called vernal equinox and September 23 is called autumnal equinox.

Solstice The time of the year when the difference between the length of days and nights is the largest is referred to as solstice.

On or around June 21, the North Pole tilts towards the sun and the sun shines directly over the tropic of Cancer which is called summer solstice. On or around December 22, the earth is at the opposite end of its orbit, as a result, the South Pole tilts towards the sun and the North Pole away from it. This is called winter solstice.

Edipses When the light of the sun or the

moon is obscured by another body the sun or moon is said to be in eclipse.

Lunar Eclipse When the earth comes between the moon and the sun, the shadow cast by the earth on the moon results in a lunar eclipse. Lunar eclipse occurs only on a full moon day but not on every full moon day.

Solar Eclipse When the moon comes between the sun and the earth, it causes obstruction of the sun's light when viewed from the earth and is called solar eclipse. A solar eclipse occurs on a new moon day when the moon is in line with the sun. However, solar eclipse does not occur on every new moon day.

Midnight Sun: In the Arctic and Antarctic region around mid-summer when the sun sets, the sun does not go below the horizon throughout the 24 hours. The sun may be seen at midnight too. This is due to the inclination of earth's axis to the plane of orbit. Norway is called the land of midnight sun, seen between May and July. In the Southern hemisphere, the phenomenon is seen in Antarctica.

Lithosphere

The lithosphere is the top crust of the Earth on which our continents and ocean basins rest. It is thickest in the continental regions where it has an average thickness of 40 km and thinnest in the oceans where it may have a maximum thickness of 10 to 12 km.

Mohorovic Discontinuity: An imaginary line that separates Mantle and Crust.

Gutenberg-Wiechert Discontinuity: A separation between the Mantle and the Core.

It constitutes about 1% of the Earth's volume and 0.4% of its mass. Though the lithosphere technically includes both the land mass and the ocean floor it is often used to indicate only the land surface. Regarded thus, the lithosphere forms only 3/10 of the total surface of the Earth. The rest 7/10 is taken up by the oceans.

As we see it today, the topmost portion of the land surface is sand and soll except where

rocky outcrops show. All the sand and much of the soil that we see have derived from ancient rocks.

The contours of the landscape are largely conditioned by the rocky substructure of the lithosphere. Geologically speaking, all materials that make up the crust of the Earth are rocks, whether they are big granite boulders, combustible coal, soft clay or loose fragments of gravel or sand. Rocks which form the subst-

ructure of the lithosphere may be broadly grouped into three classes: (i) Igneous rocks (ii) Sedimentary rocks and (iii) Metamorphic rocks.

We know that the face of the Earth, that is,

its visible surface has undergone radical

changes in the past. Geologists explain these changes as the consequence of the cooling

and contraction of the Earth, through thou-

sands of years. This explanation seemed quite unsatisfactory to a German scientist, Alfred Wegener (1880-1930).

In 1915, Wegener published a book The Origin of Continents and Oceans in which he advanced the theory of Continental Drift. He theorised that the changes on the Earth sur-

Continental Drift*

nents.

The theory of Continental Drift assumes that the continents plough through the oceans like massive ships.

face were mainly due to the shifting of conti-

A. 350 million years ago During the early carboniferous period large continental masses, Laurasia in the north, and Gondwanaland in the south, began drifting towards each other. Britain and much of western Europe lay in equatorial latitudes.

B. 200 million years ago in the late carboniferous period Laurasia and Gondwanaland collided, creating the super-continent

Panthalassa) which remained largely intac until late Triassic times. A large gulf called Tethys opened up in the regions we now recognise as the Mediteranean and the Al pine–Himalayan mountain belts.

Pangaea, (and a great ocean called

C. 50 million years ago During the Eocene period the fragmentation of Pangaea was well advanced and continents and oceans began to look as they do today. The Atlantic Ocean widened, the Tethys Ocean narrowed while the Indian continents isolated and exposed to a northerly drift, was later to collide with the north Asia.

D. Present Day The northward movement

of much of the Earth's continental masses continues. Changes since Eocene period include the continued growth of the Atlantic Ocean, the collision of the Indian continent with both Asian mass and the separation of Antarctica and Australia.

E. 50 million years ahead Scientists predict

E. 50 million years ahead Scientists predict still further widening of the Atlantic Ocean with continued spreading of the Red Sea and an accompanying closure of the Persian Gulf. It seems likely that a new ocean could evolve in the East African rift system and that East Africa and Australia will drift to the position north of the Equator with Antarctica positioned more or less in South-pole.

Plate Tectonics

continents that are in motion, but the oceans as well. This is so, because the top crust of the Earth is not a complete single shell of granite and basalt, but a mosaic of several rigid segments, called plates. The theory of plate tectonics explains how the Earth's crust is moving in vast, rigid sections (plates) and is a modern revolution in our understanding of the planet. These plates include not only the Earth's solid upper crust, but also parts of the

denser mantle below called Asthenosphere,

and carry the continents and oceans on their

Plate Tectonics tells us that it is not only the

The concept of Continental Drift was first described by the German geophysicist Alfred Wegener in 1910 and later reinvigorated as the Theory of Plate Tectonics inearly 1960's.

Solution holes: Rainwater dissolves limestones and numerous solution holes are formed. Smaller holes are called the sink holes. Coalescence of neighbouring sink holes into larger hole is called the swallow hole. Further erosion leads to formation of extensive depression called dolines. Extensive dolines is called uvala. Most extensive depressions are called poljes. The disappearance of surface streams through a solution hole is called Blind Valley.

Mesa and Butte: A flat table land with resistant horizontal top and very steep sides. Erosion of Mesas over the years may result in isolated flat-top hills called Buttes.

Siefs: Long narrow ridges of sand lying parallel to the direction of the prevailing winds.

Playa: A temporary lake formed at the desert basin.

Zeugen: In areas which have parallel layers of both hard and soft rocks. After the lower soft portion gets eroded the resistant hard upper rock looks like a table, viz. zeugen.

Deserts

Desert is a part of Earth's surface that is too dry to support plant or animal life and is usually sparsely inhabited or uninhabited by man. Deserts are classified under three categories:

Sub-Tropical (Hot) e.g. Sahara, Arabian (Saudi Arabia, Kuwait, Qatar, UAE, Oman, Yemen), Kalahari (Botswana, S. Africa, Namibia), Australian (Gibson, Gt. Sandy, Gt. Victoria, Simpson and Sturt Stony), Mojave and Sonoran (US-Mexico), Chihuahuan (Mexico, SWUS), and Thar (India-Pak) deserts. Here temperature rises as high as 58°C.

Mid-latitude (Temperate) e.g. Gobi (China-

Mid-latitude (Temperate) e.g. Gobi (China-Mongolia), Great Basin and Colorado Plateau (US), Pategonian (Argentina), Atacama (Chile), Namib (Namibia), Kara-Kum and Kyzl-Kum (Uzbek-Turkestan) deserts, Iranian, Taklamakan (China). High-latitude (Polar/Cold) e.g. Antarctica and Arctic. Here temperature falls as low as 88°C and below in polar deserts. They receive less than 250 mm rainfall annually.

Grasslands

Grasslands are areas that are too dry to support green forests, but not dry enough to be a desert. Most commonly grasses grow here Some grasslands: the Great Plains/ Prairies (US, Canada); Steppes (Europe- Asia); Pampas (Argentina), Savannas (Cent. & S. Africa), Campos, Catingas, Lanos, Selvas, Gran Chaco (Brazil); Velds (S.Africa); Downs (Australia).

Islands

tectonic and coral.

Islands take a large mass of land, the biggest 16 of them accounting for as much as 56 million sq. kms-greater than the area of the continent of Europe. The smaller islands count by the thousands. Islands are broadly divided into four types, continental, oceanic,

Continental Islands are those islands that rise from the continental shelf, like the British Isles or Newfoundland. These islands have the same geological structure as the continents to which they are related.

Oceanic Islands are those that rise from the bosom of the oceans. Their geological structure will have no relation to that of the nearest shores. They are very often the tops of submarine mountains or submarine volcanoes. Ascension and Tristan-da-Cunha, for example, rise from the Central Atlantic ridge (mountain) while St. Helena and Teneriffe are

islands formed by submarine volcanoes.

Tectonic Islands are created by movements in the Earth's crust. The outermost layer of the Earth made of rigid plates are in very slow, but constant, motion. When one plate is pushed under another plate, the top plate may scrape off pieces of the bottom

plate. Over millions of years, this materia

piles up to form an island. Barbados in the

West Indies and Kodiak Island near Alaska were formed this way.

Coral Islands are the work of minute sea organisms called coral polyps. They congregate in large colonies. When the organisms die, their skeletons, which are made of a substance resembling limestone, form big clusters, some of which rise above the water.

One type of coral excels in building reefs. Reef-building corals thrive in warm tropical seas. They usually start building reefs, along the edges of islands. Such reefs are called fringing reefs. Many tropical islands have such fringes. These protect the islands from the ravages of the sea. Sometimes an island, with a coral fringe begins to sink. Its shoreline goes down first, while coral building continues upwards. The sea invades the sinking shoreline and separates the coral reef from the rest of the island. Such a reef is called a barrier reef. The Great Barrier Reef, which extends for more than 2000 km parallel with the coast of Queensland, Australia, appears to have come into existence in this manner. This is the biggest coral reef known and consists almost entirely of the limestone skeletons of countless coral colonies that had existed through thousands of years.

Atolfs Low circular coral islands each with a central lagoon of shallow water, are called atolfs. Atolfs probably represent the last stage in the evolution of a coral island. When the island around which coral is built sinks, the coral ring remains above water, while the island disappears under the water. In course of time the coral limestone reef is weathered down to soil and seeds carried by birds or wind begin to sprout and produce vegetation. Then the coral reef turns into an inhabitable area—a coral island in fact.

Atolls consist of two parts, a central lagoon (watery area) and a surrounding reefland. Sometimes the watery surface is much bigger than the land surface. This is the case with Kwajelin in Marshall Islands, Central Pacific,

where the water area covers 2850 sq. km, while the land area is a narrow ring, with a total length of 280 kilometres. On the other hand, Christmas Island in Line Islands, Central Pacific, is an atoll with the largest land area known—480 sq. km. Its lagoon 'is relatively insignificant.

Hydrosphere

It is estimated that the hydrosphere contains about 1,460,000 cubic km of water. Of this 97.3% is in the oceans and inland seas. The rest 2.7% is found as glaciers and ice caps, fresh water lakes, rivers and underground water.

The total stock of ocean water and fresh water has been fairly constant throughout geological history. But the ratio between ocean water and fresh water has always changed according to climatic conditions. When the climate is very cold much of the sea water is absorbed by glaciers and ice caps and fresh water increases at the expense of sea water. When the climate grows hot, glaciers and ice caps melt and sea water gains at the cost of fresh water. Sea level observations during the last 60 to 80 years indicate that the sea level is rising slowly. This means that the climate is getting hotter.

The Oceans

The oceans cover 70.8% of the Earth's total surface area and hold 1445 million cubic km of water. This water despite its abundance is not directly useful to man, because it is not potable.

The ocean water contains about 3.5% of dissolved salts – chlorine, sodium, magnesium, sulphur, calcium, potassium, bromine, strontium and boron. Minute quantities of carbon, silicon, aluminium, fluorine and iodine are found. The oceanic waters are always in motion, owing to a variety of natural forces.

Solar heat sets ocean water moving. The Sun warms up the water in the equatorial

regions causing it to expand and rise by a few inches. This extra rise at the equator causes the water to flow down, to the north and south poles. As the warm water at the equator flows north and south, the heavier cold water (heavier, because of its extreme condensation) in the polar areas sinks below the warm water and spreads slowly along the bottom to the equatorial regions. This interflow is complicated by the force of the rotation of the Earth, Because the Earth spins eastwards, the sea water tends to roll up to the west, turning slightly to the right in the northern hemisphere, and to the left in the southern hemisphere. This is known as the Coriolis Effect, after the French mathematician who discov-

The Oceans, unlike the continents, merge so naturally into one another that it is hard to demarcate them. Nevertheless, geographers have divided the oceanic area into 4 oceans, namely the Pacific, the Atlantic, the Indian and the Arctic. These oceans, by definition, include the seas, bays, gulfs and other ocean inlets attached to them.

ered it nearly a century ago.

oldest of the oceans. It occupies 35.25% of the Earth's area. It is 16,880 km at its broadest and 11,516 mat its deepest (Mindanao Deep). It has the greatest conglomeration of islands, which fall into three broad groups. Micronesia, Melanesia and Polynesia. Area: 155.5m km², Av. Depth: 4028 m, Deepest place: Mariana

The Pacific Ocean is the largest and the

The Atlantic Ocean, the second largest ocean, covers 20.9% of the earth's area. Its greatest depth is 8,381 m (Milwaukee Deep). Area: 76.7m km², Av. Depth: 3926 m, Deepest place: Puerto Richo Trench.

The Indian Ocean, the third largest, stretches from Kanyakumari in India to the Antarctic at the South Pole. It takes up 14.65% of the Earth's total surface area. Its greatest depth is 772S m. Area: 68.5 m km², Av. Depth: 3963 m, Deepest place: Sunda Trench.

The Arctic Ocean is the northern-mo ocean. It winds round the North Pole and completely frozen in winter and covered wit drifting ice for the rest of the year. It is no navigable. Area: 14m km², Av. Depth: 1205n Deepest place: 77°45'N; 175°W

The Antarctic Ocean* is otherwise callet

the Southern Ocean. It surrounds the wholof Antarctica. In winter it gets frozen an because of its great expanse it influence regional climate. Area: 20.3mkm², Av. Deptl 4500m, Deepest place: South Sandwic Trench.

Salt in Ocean: NaCl 77.8%; MgCl₂ 10.99 MgSO₄ 4.7%; CaSO₄ 3.6%; K₁SO₄ 2.59 CaCO₃ 0.3%; MgBr₂ 0.2%

Rivers, Lakes and Falls

The two longest rivers in the world are the Amazon (Amazonas) flowing into the Sout

Atlantic and the Nile (Bahr-el-Nil) flowing into the Mediterranean.

The length of the Amazon as measured in 1969 is 6448 km. A subsequent calculation has placed it at 6750 km. The length of the Nile as measured by M. Devroey of Belgium is 6670 km. If we take the lower figure for Amazon (6447 km) the Nile leads by 223 km of the greater length is considered (6750 km).

the Amazon leads the Nile by 80 km.

However, in judging rivers, the primar

criteria are the amount of water they carry and the extent of the area they serve, whether for navigation or cultivation. On these counts the Nile loses to the Amazon by wide margin Amazon river has the greatest flow of all river in the world with an average 119, 000 cubic metres per second (118,860 cubic m of water per second (cusecs)) rising upto 200,000 cubic metres in flood. It has the largest river basing the second cuse of the second cusecs of the largest river basing upto 200,000 cubic metres in flood. It has the largest river basing the second cuse of the second cuse of the largest river basing upto 200,000 cubic metres in flood. It has the largest river basing the second cuse of the second custom cuse of the second cuse of the second custom cuse of the second cuse of the second custom cust

Medeira having a length of 3200 km.

in the world, 7 million square kilometres. It ha

some 15,000 tributaries, the longest tributar

Trench.

^{*} In 2000, International Hydrographic Organisation delimited Antarctic Ocean as the 5th world ocean.

River Valleys: The running river water is an agent of erosion forming U-shaped or V-shaped valleys. During the rivers' different stages, erosion forms different land form.

Meanders: It is the longitudinal s-shaped courses of rivers.

Ox-bow lake: Small lakes formed as a river cuts through a meander neck to shorten its course, block off the old channel and then migrates away from the lake.

Deltas: Arcuate deltas are arc-shaped, like in Nile delta, Niger delta or Indus delta.

Bird-foot delta as in Mississippi delta.

Estuarine delta are those formed due to filling of estuaries of rivers as in Narmada & Tapi, Ob, Hudson, etc.

Atmosphere

The atmosphere is an insulating blanket protecting the Earth. It softens the intense light and heat of the Sun. Its Ozonic (O₃) layer absorbs most of the very deleterious ultraviolet rays from the Sun and thus protects living organisms from extinction.

The atmosphere is bound to the Earth by gravity. Satellites like the Moon, which have very low gravitational power, cannot and do not hold an atmosphere.

Air pressure simply means the weight of the entire air column over a given point. Air, of course, has very little weight. A litre of air weighs around 1.3 g. At the sea level, the air pressure is 1033.6 g per sq. cm. This pressure is usually described as one atmosphere.

Composition of Atmosphere: The atmosphere is composed of various gases and water vapour, and in its uppermost reaches, it is charged with subatomic particles. Up to about 50 km from the Earth, the atmosphere consists of about 78% nitrogen, 21% oxygen (O_2) and minor percentages of argon, carbon dioxide, neon, helium and methane, in that order. Above 50 km, the atmosphere is made up of atomic oxygen (O_3) , ozone (O_3) , helium and hydrogen.

Water vapour is present in the lower atmosphere, say up to 12 km, in concentrations ranging from 0.01% to 1%. Although the amount of water vapour in the atmosphere is very small, its importance is very great, for without water in the atmosphere, there would be no water on Earth. Water enters the atmosphere by evaporation from the hydrosphere (and by transpiration) and leaves the atmosphere by precipitation as snow or rain. It is a never ending 2-way traffic.

Clouds are made of water vapour that has evaporated from the Earth. They are very tiny droplets of microscopic size and are too light to fall down as rain. So they ride on the air waves until they condense and then fall down as rain.

Lightning: It is the surge of electricity from the Earth that makes lightning the awesome phenomenon that it is. The lead, however, is taken by the clouds which send down a rather weak stroke called the leader stroke. The Earth responds by sending up a much more massive stroke to the clouds. The whole thing takes less than a second, so that we see the leader stroke and the counter stroke as one flash of lightning. Dry air is highly resistant to electricity. When the air is loaded with water vapour it becomes a better conductor. Nevertheless, much power is required for the stroke to rip through the air. This excessive discharge of electricity heats up the air around the passage (of the stroke) to incandescent temperatures, say 10,000°C. It is this glowing air that we see as lightning flash. The heat also causes a sudden expansion of air which, as the heat disappears, contracts quickly again. This sudden expansion and contraction produce the familiar thunder clap. Although both occur at the same time, we see the flash first for light travels much faster than sound.

The character and composition of the atmospherechange as one go higher and higher.

Spheres of Atmosphere 1. Troposphere with Tropopause, 2. Stratosphere with Stratopause, 3. Mesophere with Mesopause and 4. lonosphere and 5. Exosphere. The one nearest the Earth-between 8 and 12 kms - is called the Troposphere. Here the temperature decreases with increase in height. It's the densest and contains water vapour and dust. Clouds are found here. Since 80%

pause is what separates Troposphere from Stratosphere. Stratosphere, extends from 12 to 30 km, and the temperature remains steady. It is free from water vapour, clouds and dust. Jets often fly in this zone. Ozone protects Earth

from the bad effects of the UV- rays radiating from the Sun. Stratopause divides Stratosphere from Mesosphere. Mesosphere extends up to 80 km and is very cold. Still higher, starting about 80 km above the surface, is the lonosphere. In this

Ozone Laver

According to 2006 Reports of two UN agencies, the World Meteorological Organisation (WMO) and the Environment Program (UNEP), the earth's ozone layer is finally on the mend after decades of damage, i.e., recovering more slowly than experts had hoped. Over huge areas of Europe, North America and Asia in the northern hemisphere and over southern Australasia, Latin America and Africa, the

layer would be back to pre-1980 levels by

2049. Over Antarctica, where so-called

"ozone holes" have grown over the past 30

years, recovery was likely to be delayed until

of the air mass is concentrated here it is capable of influencing Earth's climate. Tropouppermost region many of the molecules and atoms of the Earth's atmosphere are ionized.

enveloped by different layers but in the stratosphere it is covered by ozone gas. (Stratosphere extends from 12 km to 30 km above the Earth). Ozone has three oxygen atoms while oxygen has two. Ozone protects mankind from harmful radiation called ultraviolet (UV) rays from the Sun. The UV light from the Sun causes reaction leading to making and breaking of ozone oxygen. The ozone layer absorbs potentially harmful UV radiation from the Sun (at wavelengths between 240 and 320 nm). The main destroyers of the ozone are the CFCs (Cholorofluorohydro-carbons) (from air conditioners, refrigerators, aerosols, solvents production of some types of packaging) and nitrogen oxides from fertilisers and aircraft emissions occurring high in the troposphere (which rise up into the stratosphere) where they are broken by UV light into chlorine (which has a very devastating effect on the ozone). One atom of chlorine can destroy

Winds

It is the air in motion. What causes the wind is the pressure gradient, it always from high pressure area to low pressure area. Due to the Earth's rotation the wind's direction changes

among other things.

suddenly due to deflection. In the northern hemisphere the wind is deflected to the right and in the southern hemisphere to the left. This phenomenon is called the Ferrel's Law. The force acting behind it is Coriolis force.

over 100,000 molecules of ozone. Depletion

of the ozone layer will allow UV light of the

undesirable wavelengths to penetrate the

atmosphere and reach Earth's surface. This

causes skin cancer, severe sunburns, cataracts,

damage vegetation, crop yields and sea life,

Types of Winds (i) Planetary winds are those that occur at the global scale, such as the trade winds, westerlies (Roaring Forties, Furious Fifties, Shrieking-sixties), doldrums, tropical cyclones- as in India, (Typhoon-Phil-

2065. The good news is that the level of ozone-depleting substances continues to decline from its 1992-94 peak in the troposphere and the 1990s peak in the stratosphere. The earth's atmosphere is



Monsoon in itself is considered a phenomenon. Monsoon is attached to such an atmospheric circulation which reverses its flow seasonally. If this criterion of seasonal reversal is applied strictly, then only a few regions of the world have monsoon wind system. It is in Asia that monsoonal circulation is found in the ideal form. USA, North-

ern Australia, West Africa also has monsoon-

like experiences.

Indian Monsoon The monsoon in the truest sense is observed only around the Indian Ocean. The centres of action, air masses, and the dynamics of Indian monsoon are completely different from the rest of the world monsoon systems. The peninsular shape of the country has its role, as it divides the SW monsoon flanks to the north as the Arabian Sea branch and to the east as Bay of Bengal branch.

Rain: When the SW Monsoon brings about

I metre of average rainfall over the plains of the country as a whole, it is called normal. But there are many places such as the windward side of the Western Ghats which receive between an average of 100-250 cm of rain. At Mahabaleshwar the rainfall amounts to 650 cm and Mawsynram, on the southern slopes of Khasi-Jayantia Hills, has the unique distinction of receiving average precipitation of 965 cm, in the world. The term 'drought' is generally applied when the country receives 85% or less of the long term average rainfall; the SW monsoon may be deemed to have failed when the rainfall is so scanty.

Peculiarities of Indian monsoon are:

(a) tropical location of the Indian sub-continent, (b) Himalayas—the mountain barrier to the north of the landmass, cold and dry airmass from the Central Asian high pressure zone. It not only blocks the SW wind from crossing over to the Tibetan plateau but allows it to spread in the north Indian belt.

(c) monsoon is controlled by high and low pressure centres developed over northwest-

ern region of the Indian sub-continent, (d) It is in summer due to intense heating the high temperature (about 40 - 45°C) steepens pressure gradient over India, (e) extreme low pressure points (thermal low of upto 700 mb) that develop in the NW region, actively attract the prevailing wind from the Indian Ocean. (f) monsoon bursts over India with big turbulence, (g) Inter-tropical Convergence Zone shifts to the northern plains (about 30°N), (h) at its peak monsoon derives its strength from series of atmospheric depressions, that have their origin in the convergence zone of different air masses, (i) monsoon starts by 20th May and covers the whole country by July 15th, (j) retreating monsoon starts (also called NE monsoon) from northern regions by Sept. 1st, central India by Oct.1st, and completely by first week of November, (k) Retreat of monsoon is also accompanied by disturbances such as cyclones, causing large scale damage to life and

Ilinar Statistics

property along the eastern coast of India.

- Distance from Earth^o-0.384403 m km
- Diameter-3,475 km
- Circumference- 10,927 km
- Temperature on Moon-134°C to 170°C •Revolution around Earth 27 days 7hrs 43min-11.47 sec
- Av. speed around Earth- 3700 kmph
- Age-About 4.6 b years
- Gravitational pull-1/6th that of Earth
- " The mean distance from the Earth: Apogee (max)-406,699 km, Perigee (min)-356,399 km The Moon revolves round the Earth in 27¹¹ days (27 days 7 hours 43 minutes and 11.47 seconds) and rotates on its own axis in exactly the same time. That's why only one side is seen.

Ellenievolvi divier

The occurrence of earthquakes in India is due to the drifting of the so-called Indian Plate. Scientists divide the globe into a number of major tectonic plates that drift very slowly. Whenever and wherever these plates slide against each other a tremendous amount of energy is released and causes the terrific destructions. The recent earthquakes in Mahara-shtra and Gujarat give us a good estimate of how damaging they could be.

Earthquake

There was a time – some 225 million years ago – when the continents were not separated by oceans. The earth's surface knew only one massive continent, called Panagea. The some 200 million years ago, Panagea split into two major continents, one of them Gondwana-land (which contains Africa, South America, India and Australia). Gondwanaland continued to split into smaller land masses, one of them is the Indian plate. It drifted at a speed of 9 metres per century towards the Eurasian plate. Where these giant plates met under enormous pressure, the Himalayans were formed.

Types: Natural Earthquakes caused by endogenic forces. (i) Volcanic-caused due to volcanic eruptions, e.g., Mt Etna. (ii) Tectonic-caused due to stress and strain along Earth's plates or dislodging of rocks during faulting. (iii) Isostatic-caused by isostatic imbalance due to sudden geological activity at a regional scale. (iv) Plutonic-earthquakes originating deep inside the earth between 250 to 650 km deep.

How Earthquakes Occur? There are many fault-lines in the Earth's crust. A fault is where

blocks of crust on either side are moving relative to one another. The typical average rate is around a millimetre per year. If this movement happened gradually it would pose few problems for people living near by. Unfortunately rocks do not behave that way. Strain builds up for decades or centuries until it reaches a critical level, and then everything gives in at once.

Once a fault has given way at one point, slip movement may occur along its whole length, which may be hundreds or thousands of kilometres, though mo-vement is usually restricted to a much shorter portion of the whole fault. The strongest seismic waves are generated at the initial break-point. The closer to the break-point, the greater the energy and the greater the potential for destruction, especially if the break-point is near the surface. Technically, the break-point is called the earthquake focus, and the point on the surface directly above it is referred to as the epicentre. Slip further along the fault and readjustments close to the focus usually cause a series of smaller aftershocks, which comtinue for days (even years in extreme case) after the initial earthquake. Such kind a serergy releaseare called waves become = " way they move. Most of the damage by an earthquake is not done by the and S-waves. These waves travel deserted body of the Earth, and their except over a rapidly increar' propagate. It is other travel along the surf most of the harm. down waves (like strong side-to-s

Oct 20

Dec 12

Sep 30

lun 6

lan 17

Aug 17

Sep.21

1991

1992

1993

1994

1995

1999

1999

Major Earthquakes Worldwide				
Year	Date	Place	People killed**	Richter Scale
1990	Jun 21	Iran	35,000	7.7
1990	July 16	Philippines	1,620	7.8
1991	Feb 1	Pak/Afghan	1,200	6.8

India

7.8 6.8 Pak/Algnan 1,200 1,600 6.1 6.8

Indonesia 2,200 10,000 6.4 India Colombia 1,000 7.2 6.430 Japan 7.5 1,989

15,600

2,000

7,4

7.6

1995 May 28 Russia 1,000 5.5 1997 Feb 28 Iran 1,560 7.1 1997 May 10 Iran 4,500 6.1 Afghanistan 1998 Feb 4 6.9 May 30 Afghanistan 4,000 1998 Papua-Guinea 2,100 7.1 1998 July 17 Colombia 6.3 1,170 1999 Jan. 25

Turkey

Taiwan

2001 Jan. 26 India 20,000+ 6.9 - 7.9 2002 Mar. 3 Afghanistan 166 7.4 Mar. 25 2002 Afghanistan 1,000 6.1 2005 Oct.8 Pak-India 40,000 7.4 2006 lan 8 S. Greece 7.9 Indonesia May 27 6234 6.3 July Indonesia 659 7.7

**Approximate figures S-body waves travel faster than the surface waves, and, if felt, can give a few seconds (minutes, if further away) warning of the

arrival of the more damaging surface waves. When Next? Scientists can't predict earthquakes but they know in which regions earthquakes are most likely to occur. Taking into account the speed and direction of the drift of

the plates, the structure of the land masses and in particular the measurements of the tensions between different areas almost accuThere is a very high probability - but it is absolutely impossible to predict an exact date or the epicentre of this quake.

eastern part of the country before 2010.

Seismic Scale The Richter scale is a logarithmic scale,

Richter

devised in 1935 by geophysicist Charles Richter, for representing the energy released by earthquakes. More relevant as a measure of

the modified Mercalli scale is used. Comparative scale: Richter & Mercalli

Effects

Mercalli

earthquake strength is the intensity, for which

2.5	181	Generally not felt, but re-	
		corded	
	111	Slight vibration	
4.5	IV	Local damage.	
5.0	٧	Light damage. Can be	
		felt indoor.	
6.0	VII	Moderately destructive	
		in populous region.	
7.0	ŧΧ	Majorearthquake. Inflicts	
		serious damage.	

10 XII Volcanoes

9

8.0 х Great earthquakes. Occur once every 5-10 years; produce total destruction to nearby communities. ΧI Very disastrous, widespread

panic

Roughly ten occur each

Very very disastrous.

A volcano is a mountain or hill with an opening on top known as a crater. Hot melted rock (magma), gases, ash, and other material from inside the Earth mix together a few kilometres underground, rising up through

cracks and weak spots in the mountain, Every

once in a while, the mixturemay blast out, or

and the whole of Northern India are areas, with a high probability of experiencing severe earthquakes Based on tension measurements and past movements of the Indian plate scientists know that a very major earthquake is going to hit the Shillong plateau in the north-

rate probabilities can be calculated. Gujarat

erupt, through the crater. The magma is called lava when it reaches the air. Lava may be as hot as 1000 degree Centigrade. Gradualy the lava cools and solidifies on the earth surface making new landforms. In some eruptions, huge fiery clouds rise over the mountain, and glowing rivers of lava flow down its sides. In other eruptions, redhot ash and cinders shoot out from the mountain top, and large chunks of hot rock are blasted high into the air. A few eruptions are so violent they blow the mountain apart. Some eruptions occur on volcanic islands. Such islands are the tops of volcanic mountains that have been built up from the ocean floor by repeated eruptions. Other eruptions occur along narrow cracks in the ocean floor. In such eruptions, lava flows away from the cracks, building up the sea bottom.

Types: PERIODICITY: (i) Active-that which is alive now. e.g. Etna, Stromboli, Pinatubo, etc. (ii) Dormant-that which has not erupted for quite some time now. e.g. Vesuvius, Barren Is. (iii) Extinct- which has not erupted for several centuries/millennia or may not occur in near future too, MODE of ERUPTION: (i) Central / Explosive- e.g. Hawaiian type, Vesuvius type, Pelean type, etc. (ii) Fissure / Quite eruption: in which lava flow or flood, mud flow and furnaroles.

Volcanic eruptions

Year	Volcano (place)	Deaths (approx)
79 AD	Mt. Vesuvius, Italy	16000
1586	Kelut, Indonesia	10,000
1792	Mt. Unzen, Japan	14,500
1815	Tambora, Indonesia	10,000
1883	Krakatoa, Indonesia	36,000
1902	Mt. Pelee, Martiniqu	e 28,000
	Mt. St. Helens, USA	57
	El Chichon, Mexico	1880
1985	Nevado del Ruiz,Col	umbia 23000
1986	Lake Nyos, Cameroc	n 1700
1991	Mt. Mt Pinatubo, Ph	ilipines 800

Ring of Fire: The hundreds of active volcanoes found on the land near the edges of the Pacific Ocean make up what is called the Ring of Fire. They mark the boundry between the plates under the Pacific Ocean and the plates under the continents around the ocean. The Ring of Fire runs all along the west coast of South and North America, from the southern tip of Chile to Alaska. The ring also runs down the east coast of Asia, starting in the far north in Kamchatka. It extends down past Australia.

Looking at the Continents

Name	Area sq kllometres	% of Earth's area	Population Estimate (million)
Asia	43 998 000	29.5	3879
Africa	29 800 000	20.0	877
N. America	21 510 000	16.3	501
S. America**	17 598 000	11.8	379
Europe	9 699 550	6.5	727
Australia "	7 699 000	5.2	32
Antarctica	13 600 000	9.6	uninhabitted

[&]quot; Australia with New Zealand, Tasmania, New Guinea and the Pacific Islands, (Micronesian, Melanesian and Polynesian Islands) is called Australasia by some geographers while some others call it Oceania. ** includes Caribbean countries

Oceans of the World

Pacific	166,241,000 sq km
Atlantic	86,557,000 sg km
Indian	73,427,000 sq km
Arctic	9,485,000 sq km

Continentwise Highest Point

Continent	Peak	Height(m)
Asia	Mt. Everest	8 848
Africa	Kilimanjaro	5963
N. Am.	McKinley	6 194
S. Am.	Aconcagua	6 959
Europe	Mt. Elbrus	5 633
Oceania	Puncak Jaya	4884
Antactica	Vinson Massif	4897

Continentwise Lowest Point

Continent	Peak	Depth(m)
Asia	Dead Sea	-39€ 8
Africa	Lake Assar	-156 -
N. Am.	Death Vailey	25 3
S. Am.	Valdes Ferur	-39.9
Europe	Caspian Sea	-73 7
Oceania	Laka Evra	-F.E. #

Arctic Basin, Arctic Ocean

Oceans Greatest Depuis		Largest Deserts or a
Mariana Trench, Pacific Ocean Puerto Rico Trench, Atlantic Ocean Java Trench, Indian Ocean	10920m 8605m 7125m	Subtropical
		Cabara Nlambh Africa

2,974,600 sq km

2,515,900 sq km

2,510,000 sq km

2,261,100 sq km 1,507,600 sq km

1,392,100 sq km

1,012,900 sq km

730,100 sq km

664,600 sq km

564,900 sq km

507,900 sq km

453,000 sq km

371,000 sq km

82,100 sq km

69,500 sq km

59,600 sq km

57,800 sq km

32,900 sq km

31,500 sq km

31,300 sq km

30,700 sq km

28,900 sq km

28,568 sg km

25,667 sq km

24,387 sq km

19,529 sa km

18,300 sq km

1620m

1463m

1025m

706m

702m

678

513

503

487

465

5122m

Major Seas

South China Caribbean

Mediterranean

Bering Gulf of Mexico

Sea of Okhotsk

Sea of Japan. or East Sea

Hudson Bay East China

Andaman Black Red

Major Lakes Caspian Sea, Asia-Europe

Superior, North America Victoria, Africa Huron, North America

Michigan, North America Tanganyika, Africa Baikal, Asia

Great Bear, North America Aral Sea, Asia Malawi, Africa

Great Slave, Canada Erie, North America

Winnipeg, Canada Ontario, North America Balkhash, Kazakhstan

Deepest Lakes

Baikal, Russian Fed.

Tanganyika, Africa Caspian Sea, Asia-Europe

Malawi or Nyasa, Africa Issyk-Kul, Kyrgyzstan

Wettest Inhabited Places

Pago Pago, American Samoa

Moulein, Burma (Myanmar)

Lae, Papua New Guinea

Baguio, Philippines

Sylhet, Bangladesh

Manorama Yearbook 2007

Buenaventira, Colombia Monrovia, Liberia

> Snezhnaya, Caucasus Russia 457 Sistema Huatla Mexico 452

Resseu de la Pierre St.France

Arabian, Middle East

Chihuahuan, Mexico

Great Sandy, Australia

Thar, India/Pakistan

Gibson, Australia

Sonoran, S.W. USA

Mohave, S,W, USA

Atacama, Chile SA

Namib, S.W. Africa

Patagonian, Argentina

Great Basin, S.W. USA

Colorado, Western USA, also

Kara-Kum, West Asia

Kyzyl-Kurn, West Asia

Taklamakan, China

Famous Waterfalls

Iranian, Iran

Mongefossen

King George VI

Upper Yosemite

Deepest Caves

Resseu du Foillis

Kukenaam

Utigard

Ribbon

Roraima

Kalambo

Gavarnie

Takakkaw

Tugela

Name

Name

Angel

Cool Coastal

Cold Winter

Gobi, China

Kalahari, Southern Africa

Simpson/Stony, N. Africa 145,034 sq. km

called the Painted Desert 336,687 sq. km

Country

Venezuela

Venezuela

Norway

Norway

Guyana

Guyana

Tanzania-Zambia

Location Max.depth

USA

USA

France

S. Africa

Canada

France

Great Victoria, Australia 647,475 sq. km

9,064,650 sq. km 2,589,900 sq. km

Sahara, North Africa

582,727 sq. kn

453,232 sq. km

453,232 sq. km

388,485 sq. km

310,788 sq. kn

310,788 sq. km

139,854 sq. km

139,854 sq. km

33,668 sq. km

1,294,950 sq. km

673,374 sq. km

492,081 sq. km

349,636 sq. km

297,838 sq. km

271,939 sq. km

258,990 sq. km

Drop (m)

807

774

610

600

491

487

457

435

426

421

410

365

1455

1321

1280

1220

I arriest Deserts of the World

India

India

7817

7 756

4478

3764

Longest Rivers

			1416 16011166	******	
Name	Country/	Length in	Saltoro Kangri	India	7742
•	Continent I	diometres	Gurla Mandhata	Tibet	7 728
Nile	Africa	6650	Tirich Mir	Pakistan	7 700
•	S. America	6437	Minya Konka	China	7 690
Amazon	USA	6020	Saser Kangiri	India	7672
Mississippi-Missouri	China	5494	Muztagh Ata	China	7 546
Yangtze Kiang	Russia	5410	Mt. Communism	Tajikstan	7 495
Ob-Irtysh Zaire	Africa	4700	Badrinath Peak	India	7138
Lena	Russia	4400		India-Tibet	7100
Hwang Ho	China	4344	Chomo Lhari	Argentina	6 960
Mackenzie	Canada	4241	Aconcagua	-	6 885
Mekong	Asia	4180	Ojos del Salado	Argentina-Chile	6 768
Niger	Africa	4180	Mercedario Huascaran	Peru	
St. Lawrence	Canada-USA	4023	Liullaillaco	Chile	6 723
Parana	S. America	4000	Vokano Tupungato	Chile-Argentina	6 550
Yenisey	Russia	3804	Sajama Volcano	Bolivia	6 520
Murray-Darling	Australia	3780	Illimani	Bolivia	6 462
Volga	Russia	3690	Vilcanota	Peru	6 300
Zambezi	Africa	3540	Chimborazo	Ecuador	6 267
Maderia	S. America	3218	Mt. McKinley	Alaska	6 194
Purus	S. America	3200	Cotopaxi	Ecuador	5897
Yukon-Teslin	Alaska-Cana		Kilimanjaro	Tanzania	5895
Rio Grande Indus	USA-Mexico Asia	2900	Mt. Elbrus	Georgia	5642
Brahmaputra	Asia	2900	Mt. Blanc	France-Italy	4807

2510

1450

1290

1290

7725 Planet Deep

Nanda Devi

Mt. Kamet

Matterhom

Mt. Cook

the msl.)

Deep-sea Trenches

(INDIA)

Godawari Narmada

Java-Indian

(Ocean)

Krishna

Ganga

Name	Length	Depth	Deepest pt.
Mariana (W. Pacific)	2250	10 924	Challenger Deep
Tonga Kermade (S. Pacific)	c 2575	10 850	Vityaz 11 (Tonga)
Kuril-Kamchatka (W. Pacific)	2250	10 542	. 37
Philippine (W. Pacific)	1350	10 539	Galathea Deep

India

India

India

India

Units: Length in km and depth in metres

2250

Principal Peaks

- CORTINE	Country He	ight (m)
Mt. Everest*	Nepel-Tipes	8848
Everest South Summit		2750
K2 (Mt. Godwin)	India (POK)	2 611
Kanchenjunga	Nepal-India	2.598
Dhaulagiri	Nepa!	8167
Nanga Parbat (Diamir)	India	8126
Annapuma	Nepal	8 091
	•	, .

Hottest, Coldest, Driest, Wettest

Hottest Place Dallol, Denakil Depression, Ethiopia, annual average temp. 34.4°C Coldest Place Plateau Station, Antarctica, annual average temp. -56.7°C • Wettest Place Mawsynram, Meghalaya 1187 cm 74yr. av.; (Mt. Waialeale, Hawaii Is., 1168 cm, 32-yr.av.) annual average rainfall • Driest Place Africa, Atacama Desert, Chile,

Switzerland

*[Qomolangma-feng:Chinese, Sagarmatha:Nepalese, Mi-ti gu-ti

cha-pu long-na: Tibetan]. The dormant volcano Mauna

Kea (on Big Island of Hawaii) could be considered the tallest mountain in the world if one measures it from its

base in the Hawaiian Trough (3280 fathoms deep) to its summit, it reaches a height of 10,203m. (4205m above

New Zealand

World's Largest Four Islands

Name	Area sq km	Lecation
Australia*	7 682 300	Indian Comm
Greenland	2 175 600	المتاد رات
New Guinea	792 5CC	مصبحة
Borneo	725 545	inder Deer

(no rain for 14 consecutive years) 0.08cm.

જિલ્લાએક સામાન

he amendment to the treaty on United Nations Framework Convention on Climate Change, called Kyoto Protocol, aims at cutting global emissions of Green House

Gases (GHG). The Intergovernmental Panel on Climate Change (IPCC) has predicted an

average global rise in temperature of 1.4°C to 5.8 °C between 1990 and 2100, Current estimates indicate that even if successfully

and completely implemented, the Kyoto Protocol will reduce that increase by somewhere between 0.02 °C and 0.28 °C by the year 2050 (source: Nature, October 2003).

Objectives: Kyoto is intended to assign mandatory targets for the reduction of global emissions of greenhouse gas to signatory nations. The objective is the "stabilisation of greenhouse gas concentrations in the atmosphere at a level that would prevent dangerous anthropogenic interference with the climate system" UNFCCC-2.

Status: The treaty was negotiated in Kyoto, Japan in December 1997, opened for signature on March 16, 1998, and closed on March 15, 1999. The agreement came into force on February 16, 2005 following ratification by Russia on November 18, 2004. As of July 2006, a total of 164 countries have ratified the agreement (representing over 61.6% of emissions from Annex I countries).

Globell Weinstline

Global warming refers to an increase in average global temperatures, which in turn causes climate change. Climate change refers to changes in seasonal temperature, precipitation, wind, and humidity for a given area. Climate change can involve cooling or warming.

world in recent decades, and scientific studies of tree rings, corals, and ice cores, show that average global temperatures have risen since the industrial revolution began, with increases accelerating over the past few decades. The overwhelming consensus among climate scientists is that

most of the increase is due to human

economic activity, especially the burning

of fossil fuels and deforestation. These

activities contribute to a build-up in carbon

Temperature readings taken around the

dioxide (CO,) and other gases in Earth's atmosphere. Our atmosphere is made up of gases,

such as nitrogen, oxygen, and CO,, and water vapor, which act like a "blanket" draped around the planet. Some of these gases-such as CO, water vapour, and methane-absorb heat, reducing the amount that escapes to space, and increasing global temperatures. This is what is called the "greenhouse effect," and these gases are often referred to as "greenhouse gases."

Without this process, the temperature of Earth's atmosphere would average about 30 degrees Celsius colder than it is today. making it difficult for Earth to sustain life as we know it. However, if this blanket were to become too "thick," with too many gases trapping too much heat, Earth would be uninhabitable

lotable exceptions include the United States nd Australia. Other countries, like India and hina, which have ratified the protocol, are to required to reduce carbon emissions ander the present agreement.

According to terms of the protocol, conditions for entry into force required 55 parties and at least 55% reduction of the total CO₂ emissions at 1990 levels for the Parties included in Annex I."

At its heart, Kyoto establishes the following principles: *Kyoto is underwritten by governments and is governed by global legislation enacted under the UN's aegis

* Governments are separated into two general categories: developed countries, referred to as Annex 1 countries (who have accepted strict GHG emission reduction obligations); and developing countries, referred to as Non-Annex 1 countries (who have no GHG emission reduction obligations) * Any Annex 1 entity failing to meet its Kyoto targets

is subject to a fine and further penalised by having its reduction targets increased by 30% * By 2008, Annex 1 countries have to reduce their GHG emissions to around 5% below their 1990 levels. * Kyoto includes "linking mechanisms" which allow Annex 1 economies to meet their GHG targets by purchasing GHG emission reductions from elsewhere. The Kyoto linking mechanisms are in place for two main reasons: * the cost of complying with Kyoto is prohibitive for many Annex 1 countries (especially those countries, such as Japan or the Netherlands for example, with highly efficient, low GHG polluting industries, and high prevailing environmental standards). Kyoto therefore allows these countries to purchase Carbon Credits instead of reducing GHG emissions domestically; and, * this is seen as a means of encouraging Non-Annex 1 developing economies to reduce GHG emissions since doing so is now economically viable because of the sale of Carbon Credits.

Light Pollution

Lights, without question, help us feel secure but bad lighting hurts everyone. According to a popular 2001 study by University of Padua, Italy, two-thirds of the world's population is blind to the night sky. The loss of the dark star-filled sky is of tragic consequences for the environment and for the human soul, akin to the loss of our forested landscapes and other natural treasures. Bad light is affecting astronomical observations in different locations just as much as such conditions are affecting birds causing accidents (even killing itself) as it prey-on under street lights.

Since 1988, the International Dark Sky Association (IDA) — has dedicated itself to emphasise the gratuitous amount of energy and money wasted due to reckless lighting practices. A simple glance at a supermall, city hoardings, billboards or corporate offices at night will demonstrate the light-spewing, the IDA is trying to clean up. Obviously, the preservation of life should remain at the forefront of civilisation's collective attention, but like any natural resource, the majesty of the night sky need not be compromised. The IDA does not seek to eliminate such useful and necessary forms of lighting. Instead, it is striving to modify the current excessive lighting practices. Following through such efforts can conserve energy, reduce harmful glare on the road, and of course, allow for a purer view of the night sky. The IDA, though, is trying to convince local and state governments to light intelligently and, coincidentally, economically. In US, states like Arizona, Texas, etc., have already enacted anti-light pollution laws.

Enligh Continue of the Party of

word 'pollution', originally a Latin word 'pollutionem,' means to make dirty. Environmental pollution is a serious problem of the industrialised societies because people have converted the life—supporting systems of the entire living world into their own resources and have vastly disturbed the natural ecological balance. Serious degradation and depletion have been caused through over use, misuse and mismanagement of resources to meet the human greed.

Environmental pollution is defined as

the unfavourable alteration of our surroundings, wholly as a by-product of man's activities through direct or indirect efforts of changes in the physical, chemical and biological characteristics of land, air or water that harmfully affect human life or any desirable living thing. Human population explosion, rapid industri-alisation, deforestation, unplanned urbani-sation, scientific and technological advancement, etc. are the major causes of environment pollution.

Air Pollution: Due to air pollution, the

composition of the air is changing all over the world, esp. in industrialised countries. Air pollution results from gaseous emission from industry, thermal power stations, domestic combustion, etc. Most of the gaseous and particulate air pollutants are products of burning of fuels. Burning of coal mainly produces carbon dioxide, sulphur dioxide and fly-ash. Lead, carbon monoxide and nitrogen oxides are added to the atmosphere from automobile exhaust. Nitrogen oxides & sulphur dioxide together are responsible for acid rain. Carbon monoxide is highly toxic and impairs oxygen-carrying capacity of blood. Several cases of death are reported every year from carbon monoxide

poisoning from gas heaters, heating devices and coal mines. Lead which is emitted by automobile is known to hamper haemoglobin formation. Compounds containing chlorine and fluorine, especially the chloroflurocarbons, are widely used as propellants and as refrigerants. They cause ozone depletion in stratosphere. Air-borne solid and liquid particulates are emit-

ted by various industrial processes such as blasting, drilling, crushing, grinding and dry-

ing which may cause lung diseases, if inhaled.

Haemoglobin is known to absorb NO₂ more easily than oxygen. About 80 to 90% NO₂ inhaled is easily absorbed into the bloodstream. This reduces the oxygen-carrying capacity of blood. NO₂ causes lung tissue to become and cause lung cancer and emphysema (breathing problem due to the breakdown of the air sacs in the lungs, which then progressively diminishes the ability of the lungs to exchange oxygen and carbon dioxide in the blood stream). Thus, NO₂ causes bronchitis and bronchopneumonia. In presence of sunlight, NO₂ reacts with

Water Pollution: Water pollution adversely changes the quality of water. It disturbs the balance of ecosystem and causes health hazards to humans and animals. Water becomes polluted by the presence or addition of inorganic, organic or biological substances.

hydrocarbons to produce ozone, a highly toxic

gas, known to cause asthma.

Effluents from factories, paper mills, sugar mills, tanneries, urban and rural sewage are let into rivers. Water pollution also occurs due to the use of pesticides and fertilizers in agriculture. Enrichment of water by nutrient (esp. nitrate and phosphates) results in eutrophication of lakes and water bodies. This results in

excessive growth of algae and depletion of lissolved oxygen in the lake. Oil spills from oil ankers also causes marine pollution. Various narmful chemicals like DDT can enter into the ood chain through polluted water.

Noise Pollution: Noise can be defined as unwanted sound. Whether a sound is pleasant or a noise depends upon loudness, duration, rhythm and the mood of the person. The most immediate and acute effect of noise pollution is impairment of hearing, anxiety and stress and in extreme cases fright. Physiological manifestations: increase in the rate of heart beat, constriction of blood vessels, digestive spasms and dilation of pupil of the eye. Loudness is measured in terms of decibels (dB). Just audible sound is about 10dB, a whisper is 20dB, and a normal conversation is 35-60dB. Sound beyond 80dB can be safely regarded as pollution as it harms hearing system. The WHO has fixed 45dB as the safe noise level for a city.

PM 10 and PM 2.5: PM stands for particulate matter and the numbers 10 and 2.5 are diameter of particles in micrometer (Mm). The particles less than 10 Mm diameter which are called respirable suspended particulate matter (RSPM) can enter into human nasal tract, and particles smaller than 2.5 Mm can reach further inside up to terminal bronchi and alveoli in the lungs - may cause serious lung diseases, tumour, cancer, etc.

Radioactive Pollution: Radioactive pollution is related to all major life supporting systems-air, water and soil. Radioactivity is a phenomenon of spontaneous emission of alpha, beta and gamma rays as a result of disintegration of atomic nuclei of some elements. Man-made sources of radiation pollution are mining and refining of radioactive material, production and explosion of nuclear weapons, nuclear power plants and fuels, and preparation of radioactive isotopes. All organisms are affected by radiation pollution. In high doses, radiation can cause death. Long or repeated exposure can cause cancer leukaemia and induce mutation.

Soil pollution and land degradation: The soil pollutants include pesticides, fertilizers, industrial wastes, mining wastes, salts, radioactive materials, tin, iron, lead, mercury, aluminium & plastics. Pesticides adversely affect the micro-organisms present in soil. In addition to this, pesticides enter in human food chain either through plants or through water which accumulates as surface runoff or leaches down in the ground water with pesticide dissolved in it. Poisonous waste render soil unfit for crop production. The dangerous metals like fluoride and arsenic when present in soil, not only contaminate the crops, but also ground-water.

Deforestation: Deforestation is a threat to the economy, quality of life and future of the environment. Main causes of deforestation in India are: explosion of human and livestock population, increased requirement of timber and fuel wood, expansion of agriculture land, enhanced grazing and construction of infrastructure along the mountains. Ideally 33% of land of a country must be covered by forest. Damage caused: intensified soil erosion, accentuated floods and drought and loss of precious wild life. India is losing about 1.5 million hectares of forest cover each year. Nearly 1% of the land surface of India is turning barren every year due to deforestation. In the Himalayan range, the rainfall has declined 3 to 4% due to deforestation.

Afforestation: It restores ecological balance of all ecosystems, maintain biological diversity, act as catchments for soil and water conservation, prevent floods and safeguard future of tribal people. So, we need to develop massive afforestation programme of indigenous and exotic fast growing species for production and protection of forestry on suitable land including wasteland. A massive social forestry programme is needed to meet demands of local people for fuel, fodder, timber, etc.

ទីរបៀវប៉ូរបារទ័ររិន្ត

The biosphere is a sphere of living organisms or biological processes lying at the interface between the atmosphere, lithosphere and hydrosphere. The distinguishing feature of the biosphere is that it supports life. It is estimated that the biosphere contains more than 350,000 species of plants including algae, fungi, mosses and higher forms of plants, and 11 million animal species ranging from unicellular protozoa to man. The biosphere supplies the essential requisites of life for all these species, namely light, heat, water, food and living space or habitats.

The biosphere, or the eco-system, represents a stable equilibrium of various physical and biological factors which have been operating in the past. The organic continuity of the system rests on a network of interdependent relationships. The air, the water, man and the animals, plants and planktons, the soil and bacteria are all invisibly interlinked in a life-sustaining system we call the environment. All living organisms—microbes, plants, animals, man—have survived by adjusting themselves to the environment and attuning their lives to its rhythm.

50% forests lost, 40 species extinct According to the final technical report of the National Biodiversity Strategy and Action Plan (NBSAP), India has lost over 50% of its forest cover, 40% of its mangroves, and a significant part of its wetlands in the past couple of centuries. The report "Securing India's Future: The Final Technical Report of the National Biodiversity Strategy and Action Plan" was released in 2005. At least 40 species of plants and animals has become extinct, including the cheetah and the pink-headed

duck, while several hundred more are unde the threat of extinction. Much of the diversity crops and livestock had been lost or were under threat. All 18 of India's poultry breed are also under threat.

The reason cited are habitat destruction hunting and over-exploitation as the imme diate causes of biodiversity loss, besides at unsustainable and insensitive model of 'de velopment, breakdown of traditional man agement practices and institutions centralisation of decision-making powers it the government, serious social and economic equities, changes in moral and cultural value and lack of recognition of the full value obiodiversity in economic planning.

Sharing the Earth

We share the planet with trees, flowers inse-cts, fish, whales, dogs, and many other plants and animals. Each species of animals or plants has its place on Earth, and each one is dependant on others. Plants give off oxyger that animal need to breathe. Animals pollinate plants and spread their seeds. Animals eat plants and are in turn eaten by large animals. When plants and animals die, they become part of the soil in which new plants take root and grow.

People and the Environment

Now the human population is 6.4 billior and is still rising very fast. By 2050, according to UN estimates, there will be 8.9 billion people on the planet. Remember in 1850, there were just a billion people here.

This many people and their activities on the planet are seriously affecting the plants and animals of the world. Sometimes the damage can be controlled or even reversed but most of the time the damage is permanent. Today 1932 species of animals are endangered or threatened, according to WWF.

Habitats and some animals: Deserts: (hot/cold dry regions) – camels, kangaroos, mice, scorpions, rattle snakes • Tropical Forests: (warm, humid climate) – orangutans, gibbons, leopards, anteaters, parrots, deer • Grasslands: flat, open lands) – African elephants, kangaroos, Indian rhinoceros, giraffes, zebras, ostriches, tigers, deer • Mountains: highlands – yaks, snow leopards, eagles, mountain goats • Polar Regions: (cold regions) – polar bears, musk oxens, penguins • Oceans: sea – whales, dolphins, seals, octopuses, lobsters.

Some Endangered Animals

Giant Panda: Habitat- China. As few as 1000 Pandas remain in the mountains of southwest China • Leather-back Sea Turtle: Habitat. It is the largest living turtle living in the world. Habitat destruction, fishing nets, harvesting of its eggs are the biggest threats to their survival • California Condor: Habitat - N. America. There are just 60 of them alive in the wild. Of which half live in the State of Arizona, USA • Whooping Crane: Habitat - North America. In 2003, 15 whooping cranes migrated back north on their own for summer.

Biodiversity

Our planet is shared by 6.4 billion people and millions of species. The wide variety of life on Earth, as shown by the many species, is called biodiversity. Here is a sample of Earth's biodiversity. (The figures are estimates as new species are discovered all the time) Species: Mammal - 9000 (rodents 1700, bats 1000); Birds - 9000; Reptiles - 8000 (snakes 2900, lizards 4500); Amphibians - 5000 (frogs/toads 4500); Fish - 24,500 (sharks 350, bony fish 23000, rays & skates 450); Arthopods - 1.1 million (crustaceans 44000, insects 750000,

والمالية والمعالقة المراوية

World Environment Day celebrations for 2006 was held in Algiers with the theme "Don't Desert Drylands!". 2006 was also the UN International Year of Deserts and Desertification. The Global Deserts Outlook is the first thematic report in the Global Environment Outlook (GEO) series of environmental assessments by UNEP.

The world's deserts are facing great changes as a result of global climate change, high water demands, tourism and salt contamination of irrigated soils.

Desert margins and so called 'sky islands'-mountain areas within deserts that have been important for people, wildlife and water supplies for millennia-are under particular threat.

Some Key Facts

Almost one-quarter of the earth's land surface—some 33.7 million square kilometres - has been defined as "desert" in some sense. These deserts are inhabited by over 500 million people, significantly more than previously thought. Most of the 12 desert regions, whose future climate has been modeled, are facing a drier future with rainfall in some cases forecast to be 10 to 20% lower by the end of the century. The Dashti Kbir desert in Iran has seen a 16% fall per decade in rainfall during this same period; the Kalahari in South Africa a 12% decline and the Atacama desert in Chile, an 8% drop. The desert fringes in many places, however, suffer high pressures from human activities and include several of the most threatened terrestrial ecoregions of the world.

spiders 35000); Plants - 260000 (flowering plants 250000, evergreens 550).

Today, replacement of the communities of nature by man-made communities has become the new reality.

To safeguard life on Earth, people must learn to control and adjust the balances in nature that are altered by their activities.

Earth Day

April 22 is a day dedicated not just to recognise the beauty and riches of the Earth but also to make the Earth a healthier and safer place to live. Speeches, workshops, parades and demonstrations on the occasion of Earth Day have brought awareness about the dangers of overpopulation, energy waste, and other issues of vital concern. Earth Day was first observed on April 22, 1970 with the message "Give Earth a Chance" and intention to reclaiming the purity of the air, water and living environment.

World Environment Day

The UN General Assembly designated June 5 as World Environment Day, to deepen public awareness the need to preserve and enhance the environment. It was on that day the UN Conference on the Human Environment (Stockholm, 1972) started. The Assembly reconvened United Nations Conference on Environment and Development (UNCED) after 20 years, in Rio de Janeiro, where nations took up the challenges of a viable and equitable balance between environment and development and a sustainable future for the earth and its people.

International Agreements to Conserve Birds: Ramsar Convention on Wetlands (1971) Nearly 1,200 wetland sites in 133 countries, totaling 103 million hectares, have been designated for protection and monitoring under this international agreement to conserve wetland and use them sustainably • Program on Man and the Biosphere and World Heritage

वित्रपारकात्राकाची दिवस्थानमञ्जू

The Stockholm Conference 1972: United Nations Environmental Agency organised the International Conference on Human Environment, at Stockholm from 5 to 14 June 1972 - represented by 114 nations. The conference adopted the motto "Only One Earth" for the entire humanity. The Conference declared June 5 as the World Environment Day. Nairobi Conference: In 1982, UN Conference on Environment adopted a report "The World Environment 1972-82". It was a stock taking exercise.

Helsinki Conference 1989 decided to protect Ozone layer, phase out CFCs London Conf. ('90) phase out CFCs

Copenhagen Conf. ('92) phase out CFC
- '96, CTC-'96, Halon-2000, HCFC-2030

The Rio summit 1992: The UN convened "Earth Summit" at Rio de Janeiro to foster "our common future" from 03 to 14th June; discussed 6 conspicuous issues: 1.GHG Emission 2.Forests, 3. Technology Transfer, etc. The Earth Summit Agenda 21–a blue print for sustainable development.

Kyoto Summit, 1997, Japan, The conference was meant to set a framework for international action to mitigate global warming for at least next 10 years. World Summit on Sustainable Development, 2002, Johannesberg, Aug. 26 to Sept. 4. Over 4000 delegates from about 100 countries met to discuss issues including environment.

Stockholm Convention 2004: May 17, decided to phase out 12 dangerous pesticides and industrial pollutants.

Montreal Summit 2005: to speed up Kyoto Protocol initiative. Convention (1972) Under UNESCO, these initiatives set a framework for designating. protecting and monitoring some of the world's most important biodiversity and cultural hotspots. • Convention on International Trade in Endangered Species of Wild Fauna and Flora (1975) An international agreement by 160 countries to monitor international trade in wild animals and plants and ensure that trade does not put wildlife in jeopardy . Convention on the Conservation of Migratory Species of Wild Animals (1983) Eighty countries have signed this agreement, also known as the Bonn Convention, to protect migratory wildlife species, including birds, throughout their international migratory, breeding, and wintering areas . Convention on Biodiversity (1992) A total of 185 countries have signed on to this agreement, which was introduced at the Earth Summit in Rio in 1992. Signatories promise to set up for protecting their biodiversity, including habitat protection and restoration.

Water Resources Day

World Water Resources Day is celebrated everyyear on 22 March with a specific theme. The theme of 2004 was 'Efficiency of Water Resources System' with sub-themes on critical review of current level of efficiency and measures for improving efficiency of water resources systems. The 2004 Water Resources Day –function organised by the Central Water Commission (CWC) highlighted the judicious utilisation of the available water resources in India and the need to conserve these resources to the optimum.

The average run-off in the river system of the country has been assessed as 1869 cubic kilometres. Of this, the utilisable portion by conventional storage and diversion is estimated as about 690 cubic kilometres. In addition, the replenishable ground water potential is estimated to be 432 cubic kilometres.

The per capita availability of water at national level has reduced from about 5177

cubic metres in 1951 to the estimated level of 1869 cubic metres in 2001. The availability of water resources on an annual basis is almost fixed whereas the demands from various sectors are gradually increasing.

Dinosaurs World

Dinosaurs roamed the Earth during the Mesozoic Era. Mesozoic Era is divided into 3 periods: Triassic Period (225-195 million years) • Pangea- a united super continent • Morganucodon, the earliest known mammals appear (looked like a tiny rat) • Evergreen plants existed everywhere • Eoraptor (or dawn thief) appears; the earliest known dinosaurs was about 1.00 metres long and a meat eater • Herrersaurus appears; was 3.00 metres long and meat eater • Plesiosaurs, a long-necked large marine reptile and Ichthyosaurs, looked like dolphin, ruled the seas, Jurassic Period (195 to 135 million years) • Flowering plants appear • Saurccock (plant eaters) like Apatosaurus, the december lizard, (21 metres long, lived in W. LT == Brachiosaurus - the biggest land lived. They were eaten up by the Allosaurus and Megalosaurus • 47 appears - supposed to have feeting the training Pterosaurs, flying reptiles and the same saurs, ruled the sky • Statusant Territoria lizard, ate plants, about 130 man and and lied in N. America. Crescours million years) • rc rcz = = ==== Velociraptors, the seeded lived in Asia. It was the state of the state atops (3-homed face the second metres long come ing -Hadrosaura Septime Errore II metres long are variable in the second and the second are second as the second are second are second as the second are second as the second are se SAmerica · Terrorial Terrorial the tyrant izan and Tale Tomas and lived in the VII are larger and Ogroment services Kity Terret Terr ರ್ಷವರ್ಷ ಪ್ರಾ

	THE COSMOS
F	

Number	US & France		UK & Other Europe	an nations	India
1 & 5 zeros	One Hundred	Thousand	One Hundred Thou	ısand	One Lakh
,, 6 zeros	Million		Million		Ten Lakh
" 7 zeros	Ten Million		Ten Million		One Crore
" 8 zeros	Hundred Milli	on	Hundred Million		Ten Crore
" 9 zeros	Billion		Milliard (Thousand	Million)	Hundred Crore
" 12 zeros	Trillion		Billion		•••
" 15 zeros	Quadrillion		Thousand Billion		***
,, 18 zeros	Quintillion	•	Trillion		•••
" 21 zeros	Sextillion		Thousand Trillion		***
" 24 zeros	Septillion		Quadrillion		***
,, 27 zeros	Octillion		Thousand Quadrillion	on	•••
" 30 zeros	Nonillion		Quintillion		•••
., 33 zeros	Decillion		Thousand Quintillio	n	***
• The word 'billio	on' wherever it is u	sed in this boo	ok means a 'thousand mill	ion' (American sen	se) unless otherwis
Traditional pa	per size		Letter 216 x	279 mm	
Foolscap 34			Legal 216 x	356 mm	
Crown 381 x			Ledger 432 :		
Large Post 41			Book size	, , , , , , , , , , , , , , , , , ,	
-				100 n.ć	
Demy 445 x			•	to 189 x 246 m	
√ledium 457 x 584 mm			Crown octav	123 x 186 m	ım
Royal 508 x 6	35 mm		Large crown	quarto 201 x	258 mm
Elephant 508	x 686 mm		Large crown	octavo 129 x	198 mm
Imperial 559	x 762 mm		Demy quarto 219 x 276 mm		
Office Paper	size		Demy octavo 138 x 216 mm		
•	27 x 203 mm		•	237 x 312 mr	
Executive 18					
			•	156 x 234 mr	
Foolscap 203			Paperback A	format 111 x	178 mm
Folio/F4 210	x 330 mm	·	Paperback B	format 129 x	198 mm
Internatio	nal Paper S				
'AO	* 841 x 1189	85 86	176 x 250	1	
A1	594 x 841	86 87	125 x 176 88 x 125	1	\2
A2	420 x 594	88	62 x 88	,	···
A3	297 x 420	89	44 x 62	1	
A4 AS	210 x 297 148 x 210	B10	31 x 44	1	
A6	105 x 148	e e		1	
A7	74 x 105	C Series CO	917 x 1297		1
A8	52 x 74	CI	648 x 917	1	
A9	37 x 52	C2	458 × 648	A4	
A10	26 x 37	C3	324 x 458		
8 Series		C4	229 x 324		7 ~ 1
80	1000 x 1414	C5	162 x 229	A6	1
B1	707 x 1000	C6 C7	114 x 162	AZ AZ AS	1.
82	500 x 707	DL	81 x 114 110 x 220	171	
83 84	353 x 500	C7/6	81 x 162 All sizes in three series have sides in the proportion 1:2+2 A series is used for writing paper, book		
	250 x 353				

PART 06

like virealite are flate

The Biggest and The Smallest States

				the same of the sa	The second lives and the second lives are a second lives and the second lives are a second lives and the second lives are a sec
	The Option	3	Ű	ine Gmall	¥
In Area				In Area	
State	Area (Sq km)	Location	State Ar	ea (sq km)	Location
Russia	17,075,000	Europe-Asia	Vatican City	0.44	Europe
Canada	9,976,139	N. America	Monaco	1.95	Europe
China	9,561,000	Asia	Nauru	21.10	S. Pacific
U.S.A.	9,372,614	N. America	Tuvalu	26.00	S. Pacific
Brazil	8,511,965	S. America	San Marino	61.00	Europe
Australia	7,682,300	S. Pacific	Liechtenstein	160.00	Europe
India	3,287,263	Asia	Marshall Island	s 181.00	C. Pacific
Argentina	2,776,654 S.	America	St.Kitts-Nevis	269.00	E.Caribbean
Kazakhstan	2,717,300	Asia	Maldives	298.00	Indian Ocean
Sudan	2,505,813	Africa	Malta	316.00	Mediterranean
In Population			In Population		
State	Population	Location	State	Population	Location
China	1,313,973,713	Asia	Vatican City	932	Europe
India	1,095,351,995	Asia	Tuvalu	11,810	S. Pacific
USA	298,444,215	N. America	Nauru	13,287	S. Pacific
Indonesia	245,452,739	Asia	Palau	20,579	W.Pacific
Brazil	188,078,227	S. America	San Marino	29,251	Europe
Pakistan	165,803,560	Asia	Monaco	32,543	Europe
Bangladesh	147,365,352	Asia	Liechtenstein	33,987	Europe
Russia	142,893,540	Europe-Asia	St. Kitts-Nevis	39,129	E.Caribbean
Nigeria	131,859,731	Africa	Marshal Islands	60,422	N. Pacific Ocean
lanan	127 462 611	A -i-	Antigua and		

World Population-2006				
Continents	Population	Continents	Population	
Asia Africa	3,913,842,171 891,437,541	South America Australia/Oceania	371,271,037 32,,744,469	
Europe North America	729,341,014 512,422,558	Antarctica Total	6,451,058,790	

Barbuda

69,108

Caribbean

Asia

127,463,611

Japan

Currency

អ្នកព្រលាខនុ ១៤វុទខាព្រក្សអ្នកទុស្របាកម

Region

Capital

Country

1.	Afghanistan	S.C. Asia	Kabul	Afgani
2.	Albania	S. Europe	Tirana	Lek
3.	Algeria	N. Africa	Algiers	Algerian Dinar
4.	Andorra	S. Europe	Andorra la Vella	Euro
5.	Angola	M. Africa	Luanda	readjusted Kwanza
6.	Antigua and Barbuda	Caribbean	St.John's	Eastern Caribbean Dollar
7.	Argentina	S. America	Buenos Aires	Peso
8.	Armenia	W. Asia	Yerevan	Dram
9.	Australia	Oceania	Canberra	Australian Dollar
10.	Austria	W. Europe	Vienna	Euro
11.	Azerbaijan	W. Asia	Baku	Manat
12.	Bahamas, The	Caribbean	Nassau	Bahamian dollar
13.	Bahrain	W. Asia	Manama	Bahraini Dinar
14.	Bangladesh	S.C.Asia	Dhaka	Taka
15.	Barbados	Caribbean	Bridgetown	Barbados dollar
16.	Belarus	E. Europe	Minsk	Rouble
17.	Belgium	W. Europe	Brussels	Euro
18.	Belize	C. America	Belmopan	Belize dollar
19.	Benin	W. Africa	Porto-Novo	Franc CF4
20.	Bhutan	S.C Asia	Thimphu	Ngultur
21.	Bolivia	S. America	Sucre	= Scrivranc
22.	Bosnia Herzegovina	S. Europe	Sarajevo	Konverthina grana
23.	Botswana	S. Africa	Gaborone	745
24.	Brazil	S. America	Brasilia (Federal)	德
25.	Brunei	S.E. Asia	Bandar Seri Begawar	inae m's
26.	Bulgaria	E. Europe	Sofia	<u>.=</u>
27.	Burkina Faso	W. Africa	Ouagadougou	
28.	Burundi	E. Africa	Bujumbura	
29.	Cambodia	S.E. Asia	Phnom Perr	Fæ
30.	Cameroon	M. Africa	Yaounde	
31.	Canada	N. America	Ottawa	
32.	Cape Verde	W. Africa	Praia	
33.	Central African Republic	M. Africa	Eargu	
34.	Chad	M. Africa	N'Djameta	
				en a service

15.	Chile	

64.

65.

66.

67.

68.

69.

70.

71.

72.

73.

74.

75.

76.

Gambia, The

Georgia

Ghana

Greece

Guinea

Guyana

Honduras

Hungary

Haiti

Grenada

Guatemala

Guinea-Bissau

Germany

292 WORLD PANORAMA

55.	Crine	5, America	Valparaiso (Leg)	Chilean peso
36.	China	E. Asia	Beijing	Renmminbi Yuan
37.	Colombia	S. America	Bogota	Colombian Peso
38.	Comoros, The	E. Africa	Moroni	Comorian Franc
39.	Congo (formerly Zaire)	M. Africa	Kinshasa	Congo Franc
40.	Congo	M. Africa	Brazzaville	Franc CFA
41.	Costa Rica	C. America	San Jose	Costa Rican Colon
42.	Cote D' Ivoire	W. Africa	Yamoussoukro	Franc CFA (XOF)
43.	Croatia	S. Europe	Zagreb	Kuna
44.	Cuba	Caribbean	Havana	Cuban peso
45.	Cyprus	W. Asia	Nicosia	Cyprus Pound
46.	Cyprus, Turkish	W. Asia	Nicosia	Cyprus Pound
47.	Czech Republic	E. Europe	Prague	Koruna
48.	Denmark	N. Europe	Copenhagen	Danish Krone
49.	Djibouti	E.Africa	Djibouti	Djibouti Franc
50.	Dominica	Caribbean	Roseau	East Carribbean Dollar
51.	Dominican Republic	Caribbean	Santo Domingo	Peso
52.	East Timor	S.E. Asia	Dili	US Dollar
53.	Ecuador	S. America	Quito	US Dollar
54.	Egypt	N. Africa	Cairo	Egyptian Pound
55.	El Salvador	C. America	San Salvador	Colon
56.	Equatorial Guinea	M. Africa	Malabo	Franc CFA (XAF)
57.	Eritrea	E. Africa	Asmara	Nakfa
58.	Estonia	N. Europe	Tallinn	Kroon
59.	Ethiopia	E. Africa	Addis Ababa	Birr
60.	Fiji Islands	Oceania	Suva	Fiji Dollar
61.	Finland	N. Europe	· Helsinki	Euro
62.	France	W. Europe	Paris	· Euro
63.	Gabon	M. Africa	Libreville	Franc CFA
- 4	C 11 71			

W. Africa

W. Europe

W. Africa

S. Europe

Caribbean

C. America

W. Africa

W. Africa

S. America

Caribbean

C. America

E. Europe

W. Asia

Banjul

Tbilisi

Berlin

Accra

Athens

Conakry

Bissau

St. George's

Georgetown

Tegucigalpa

Budapest

Port-au-Prince

Guatemala City

S. America

Santiago (Adm)

Dalasi

Lari

Euro

Cedi

Euro

Quetzal

Franc CFA

Gourde

Lempira

Forint

Guinean Franc

Guyana Dollar

Eastern Carribbean Dollar

			,	WORLD PANORAMA 293
77.	Iceland	N. Europe	Reykjavik	Krona
77. 78.	India	S.C. Asia	New Delhi	Rupee
70. 79.	Indonesia	S.E.Asia	Jakarta	Rupiah
80.	Iran	S.C. Asia	Tehran	Rial
81.	Iraq	W. Asia	Baghdad	Iraqi Dinar
82.	treland	N. Europe	Dublin	Euro
83.	Israel	W. Asia	Jerusalem	Shekel
84.	Italy	S. Europe	Rome	Euro
85.	Jamaica	Caribbean	Kingston	Jamaican Dollar
85. 86.	Japan	E. Asia	Tokyo	Yen
_	Jordan	W. Asia	Amman	Jordan Dinar —
87.		S.C. Asia	Astana	Tenge
88.	•	E. Africa	Nairobi	Shilling
89. 90	•	Oceania	Bairiki (Tarawa)	Australian Dollar
		E. Asía	Pyongyang	won
91	,	E. Asia	Seoul	Won
92		W. Asia	Kuwait	Kuwaiti Dinar
93		S.C. Asia	Bishkek	Som
94	•	S.E. Asia	Vientiane	Kip
95	•	N. Europe	Riga	Lats
9	.	W. Asia	Beirut	Lebanese Pound
	••	S. Africa	Maseru	Loti
	••	W. Africa	Monrovia	Liberian Dollar
_	••	N. Africa	Tripoli	Libyan Dinar
	100. Libya 101. Liechtenstein	W. Europe	Vaduz	Swiss Currency
	102. Lithuania	N. Europe	Vilnius	Litas
	103. Luxembourg	W. Europe	Luxembourg	Euro
	104. Macedonia	S. Europe	Skopje	Denar
		E. Africa	Antananarivo	Malagasy Franc
	105. Madagascar 106. Malawi	E. Africa	Lilongwe	Kwacha
	107. Malaysia	S.E. Asia	Putrajaya (Adm) Kuala Lumpur (Fin	Ringgit .)
	108. Maldives	S.C. Asia	Male	Rufiyaa
	109. Mali	W. Africa	Barnako	Franc CFA
	110. Malta	S. Europe	Valletta	Maltese Lira
	111. Marshall Islands	Oceania	Majuro Atoll	US Currency
	112. Mauritania		Nouakchott	Ouguiya
	113. Mauritius	W. Africa	Port Louis	Mauritius Rupee
	114. Mexico	E. Africa		Mexico Peso
		C. Americ	•	US Currency
	115. Micronesia	Oceania	Palikir	- O3 Cultericy

E. Europe

E. Asia

W. Europe Monaco

Chisinau

Ulan Bator

Leu

Euro

Tugrac

116. Moldova

117. Monaco

118. Mongolia

120.	Morocco
121.	Mozambique
122.	Myanmar -
123.	Namibia
124.	Nauru

119.

125.

126.

127.

128.

129.

130.

131.

132.

133.

134.

135.

148.

149.

150.

151.

152.

153.

154.

155.

156.

157. Slovakia

158. Slovenia

160. Somalia

Senegal

Seychelles

Singapore

159. Solomon Islands

Sierra Leone

Serbia

294 WORLD PANORAMA

Montenegro

Nepal Netherlands, The

New Zealand

Nicaragua Niger Nigeria Norway Oman Pakistan

W. Africa N. Europe W. Asia S.C. Asia

Palau Palestine* 136. Panama

Oceania

W. Asia C. America Papua New Guinea Oceania S. America S.E. Asia

137. 138. Paraguay Peru Philippines, The Poland

139. 140. 141. 142. **Portugal** Qatar

Romania Russia

143. 144. 145. 146. Rwanda 147. Samoa

San Marino

Sao Tome & Principe

Sahrawi Arab Demo* Rep. (S.A.D.R.), Western Sahara

Saudi Arabia

El-Aaiun M. Africa W. Asia

S. Europe

E. Africa

W. Africa

S.E. Asia

E. Europe

S. Europe

Oceania

E. Africa

W. Africa

Sao Tome Riyadh Dakar

Podgorica

Rabat

Yaren

Maputo

Windhoek

Kathmandu

Amsterdam

Wellington

Managua

Niamey

Abuja

Oslo

Muscat

Koror

Islamabad

Ramallah

Asuncion

Manila -

Warsaw

Lisbon

Doha

Kigali

Apia

Bucharest

Moscow

San Marino

Belgrade

Freetown

Bratislava

Ljubljana

Honiara

Mogadishu

Singapore City

Victoria

Lima

Panama City

Port Moresby

Yangon (Rangoon)

S.E. Europe

N. Africa

E. Africa

S.E. Asia

S. Africa

Oceania

S.C. Asia

Oceania

W. Europe

C. America

S. America

E. Europe

S. Europe

E. Europe

E. Europe

E. Africa

Oceania

S. Europe

W. Asia

W. Africa

Euro

Kyat

Euro

Naira

Cordobas

Franc CFA

Rial Omani

US currency **New Shekel**

> Balboa Kina

Guarani

Peso

Zloty

Euro

Leu

Tala

Euro

N. Africa

Franc CFA

Seychelles Rupee

Singapore Dollar

Solomon Island Dollar

Slovak Koruna

Somali Shilling

Dobra

Dinar

Leone

Tolar

Rial

Oatari

Rouble

Rwanda Franc

Nuevo Sol

Pakistan Rupee

Dirham

Metical

Namibia Dollar

Australian Dollar

Nepalese Rupee

New Zealand Dollar

Norwegian Krone

161. South Africa	S. Africa	Pretoria (Adm.)	Rand
		Cape Town (Leg	j.)
		Bloemfontein (Ju	ıd.)
162. Spain	S. Europe	Madrid	Euro
163. Sri Lanka	S.C. Asia	Colombo	Sri Lankan Rupee
164. St. Kitts and Nevis	Caribbean	Basseterre	Carribbean dollar
165. St. Lucia	Caribbean	Castries	Carribean Dollar
166. St. Vincent and			
the Grenadines	Caribbean	Kingstown	East Caribbean Dollar
167. Sudan	N. Africa	Khartoum	Sudanese Pound
168. Suriname	S. America	Paramaribo	Suriname Guilder
169. Swaziland	S. Africa	Mbabane	Lilangeni
170. Sweden	N. Europe	Stockholm	Krona
171. Switzerland	W. Europe	Berne	Swiss Franc
172. Syria	W. Asia	Damascus	Syrian Pound
173. Taiwan	S. Asia	Taipei	New Taiwan Dollar
174. Tajikistan	S.C. Asia	Dushanbe	Tajik Rouble
175. Tanzania	E. Africa	Dodoma	Tanzanian Shilling
176. Thailand	S.E. Asia	Bangkok	Baht
177. Togo	W. Africa	Lome	Franc CFA
178. Tonga	Oceania	Nuku alofa	Paanga
179. Trinidad and Tobago	Caribbean	Port-of-Spain	Trinidad and Tobago Dollar
180. Tunisia	N. Africa	Tunis	Tunisian Dinar
181. Turkey	W. Asia	Ankara	Turkish Lira
182. Turkmenistan	S.C. Asia	Ashgabat	Manat
183. Tuvalu	Oceania	Fongafale(Funaf	uti) Australian Dollar
184. Uganda	E. Africa	Kampala	Uganda Shilling
185, Ukraine	E. Europe	Kyiv	Hryvna
186. United Arab Emirates	W. Asia	Abu Dhabi	Dirham
187. United Kingdom	N. Europe	London	Pound Sterling
188. United States of America	N. America	Washington	D.C. Dollar
189. Uruguay	S. America	Montevideo	Uruguayan Peso
190. Uzbekistan	S.C. Asia	Tashkent	Soum
191. Vanuatu	Oceania	Vila	Vatu
192. Vatican City	S. Europe	Vatican City	Euro
193. Venezuela	S. America	Caracas	Bolivar
194. Vietnam	S.E. Asia	Hanoi	Dong
195. Yemen	W. Asia	Sana'a	Riyal
196. Zambia	e. Africa	Sana a Lusata	Kwacha
197. Zimbabwe	E. Africa	Harare	Zimbabwe Dollar
S. Europe: Southern Europe; N. Europe:	Northern Europe	; Ł. Europe: Eastem Eur	rope; vv. Asia: vvestem Asia; c. Asia:

S. Europe: Southern Europe; N. Europe: Northern Europe; E. Europe: Eastern Europe; W. Asia: Western Asia; E. Asia: Eastern Asia; S.E. Asia: South East Asia; S.C. Asia: South Central Asia; S. America: South America; N. America: North America; C. America: Central America; N. Africa: North Africa; E. Africa: East Africa; S. Africa: South Africa; M. Africa: Middle Africa.

degrate villed ted for a 1910 in 1917

1. Afghanistan

Islamic State of Afghanistan



Capital: Kabul; Other Large Cities: Kandahar, Herat, Mazare-Sharif; Area: 647,497 sq.km; Population: 31,056,997; Languages: Pushtu and Persian; Religions: Sunny Muslim-80%, Shia Muslim-19%, othe rs-1%; Literacy: 36%; Life Expectancy: 43.34; Currency: Afghani (\$1=43); p.c.i: \$800; Date of Independence: 19th August 1919.

Government Type: Islamic Republic; President: Hamid Karzai.

History: Afghanistan is a land-locked republic in Central Asia known originally as Ariana or Bactria, then as Khorasan (the land of the Rising Sun). Afghanistan has suffered from such chronic instability and conflict during its modern history that its economy and infrastructure are in ruins, and many of its people are refugees. Monarchy was overthrown in 1973, and a marxist 'people's republic' was created by Noor Taraki's coup of 1978. In 1986, Lt. Gen. Najibullah became President. Soviet troops, which had occupied

Note: p.c.i.: per capita income: GNI per capita (PPP\$). The boundaries of maps not true to scale. the country in 1979, faced resistance from Afghan tribesmen 'Mujahideen' (holy warriors). Soviet troops were withdrawn in 1989. In Feb. a military council headed by Najibullah was announced. Afghan rebels elected Sigbha-tullah Mojaddidi as President of an interim government in exile. He handed over power to a Mujahideen leadership council.

The Mujahideen factions that captured Kabul in Apr. '92 began internecine fighting. Half the population of Kabul fled the city. In January 1994 President Burhanuddin Rabbani and PM Gulbuddin Hekmatyar parted ways. A few months later a newly formed Islamic movement 'Taliban' (i.e. 'students of religion') emerged as a new force. In 1995, they were in control of around a third of the country. In June 1996, Gulbuddin Hekmatyar again joined Rabbani and was sworn in PM but Rabbani was overthrown in Sept. by Taliban which imposed harsh Islamic laws and executed former President Najibullah. A Taliban offensive on 27 December, 1996 gave Taliban contròl of 90% of the country. In November. Taliban was overthrown by the Northern Alliance with US support. On April 18, 2002, former King of Afghanistan, Mohammed Zahir Shah, returned to Kabul after 29 years in exile in Italy. In June, Hamid Karzai, leader of the interim administration, was elected in a landslide vote to be the next President, NATO took command of the 5000-strong international peacekeeping force in Kabul in August.

Economy: Agriculture is the mainstay of the economy. The principal crop is wheat. Animal husbandry is important for meat, milk and wool. Chief mineral resource: natural gas. The main industrial activity is the manufacture of woollen and cotton textiles; traditional handicrafts and woven carpets are important exports. Afghanistan produces 3400 tonnes of opium worth (\$1.2b.) a year.

Recent Events: In January 2006, more than 30 people were killed in a series of suicide attacks in southern Kandahar province. International donors meeting in London pledged more than \$10 bn in reconstruction aid for five years. In May-June scores of people were killed in battles between Taliban fighters and Afghan and coalition forces in the south during an offensive known as Operation Mountain Thrust.

Mission in India: Embassy of Afghanistan, 5/50F, Shantipath, Chanakyapuri, New Delhi-110?021. Tel: 26883602, 24103331, 24100412; Fax: 26875439.

E-mail: afghanembassy@rediffmail.com Indian Mission in Afghanistan (Temporarily closed): Embassy of India, Malalai Wat, Shahre-Nau, Kabul, Afghanistan.

Tel: 00-873-763095560; Fax: 00-873-763095561, E-mail: indembkabul@nic.in

2. Albania

Republic of Albania (Republika e Shqi-perise)



Capital: Tirana; Area: 28,748 sq. km; Population:3,581,655; Languages: Albanian, Greek; Religions: Islam-70%, Albanian Orthodox-20%; Roman Catholic-10%; Literacy: 86.5%; Life Expectancy: 77.43; Currency: Lek (\$1=97.50); p.c.i.: \$ 4,900; Date of Independence: 28th November, 1912.

First Atheist Country

Albania was the only officially atheist country in the world (1967-1990). Under Communist rule, all forms of religion, including private prayer in the home and owning religious icons, were forbidden. Today, religious freedom is entrenched in Albanian law. but the legacy of 50 years without religion is that many established denominations are as foreign to most Albanians as the average cult.

Government Type: Democracy; President: Alfred Moisui; PM: Sali Berisha.

History: Albania lies on the west coast of the Balkan peninsula in south-east Europe. Albania was established as an independent state in 1912. Republic was formed in 1920. After world War II, Albania became a Stalinist state under Enver Hoxha, and remained staunchly isolationist until its transition to democracy after 1990. The 1992 elections ended 47 years of communist rule. It became Europe's first muslim state in Dec. 1992.

Albania descended into anarchy and chaos in early 1997 when widespread protests over failed high-risk investment funds (pyramid finance scheme) turned into a drive to oust the government of Dr. Sali Berisha, which was blamed for allowing fraudulent investment schemes and accused of profiting from them. Violence erupted and Albanians fled by the thousands to Greece and Italy, Security Council authorised a UN force for Albania, Elections were held in June-July. Berisha quit in disgrace.

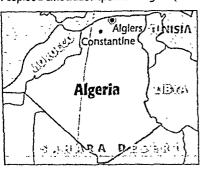
People are mostly Muslims. Public worship was outlawed in 1957. The right to practise religion was restored in 1990. Liberalisation measures included freedom to travel abroad. Albania left the Organisation of Islamic Conference (OIC) in Aug. '98.

Economy: More than half of GDP comes from agriculture, though despite extensive terracing only around one-quarter of the country is suitable for arable farming. Important minerals: coal, oil, chrome, copper and nickel. Industries: textiles, woollen fabrics, leather goods, petrol, cement, sugar, beer and cigarettes.

Mission in India: Embassy of Albania stationed at Cairo.

3. Algeria

People's Democratic Republic of Algeria (Al-3.



Jumhuriya Al-Jaazairiya ad-Dimuqratiya ash-Shabiya)

Capital: Algiers; Other Large Cities: Oran, Constantine, Annaba; Area: 2,381,741 sq.km; Population: 32,930,091; Languages: Arabic, Berber and French; Religions: Islam-99%, Christian and Jewish-1%; Literacy: 70%; Life Expectancy: 73.26; Currency: Dinar (DA) (\$1=73.285); p.c.l: \$7,200.; Date of Independence: 5th July, 1962.

Government Type: Republic; President: Abdelaziz Bouteflika.PM: Abdelaziz Belkhadem.

History: Algeria, formerly a French colony, is an independent republic in north west ?Africa and extends for 1000 km along the shores of the Mediterranean. Algeria became an independent republic in 1962.

Thousands have lost their lives in a civil war that started in 1992. Islamic fundamen-

talist party (Islamic Salvation Front) claims it was stripped of an electoral victory in the 1992 general elections. Elections were held in June '97 and the country's first multi-party legislature was sworn in. Massacres continued. Gradually peace returned to Algeria. A referendum was held in Sept. '99 on the peace plan to end the 7-year Islamic insurgency. About 100,000 people have been killed during the insurgency.

Economy: Agricultural products include wheat, barley, potatoes, artichokes, flax and tobacco. Fruits like dates, pomegranates and figs grow in abundance. Wine and olive oil are also produced. Chief occupation cattle raising. Minerals :iron, zinc, mercury copper, antimony, phosphates and petroleum. Industries: oil, light industry, food processing.

Mission in India: Embassy of the People's Democratic Republic of Algeria, E-6/5,Vasan' Vihar,New Delhi-110?057.Tel: 26146706 26147036, 26147611; Fax: 26147033

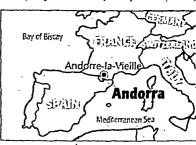
E-mail: embalgindia@hotmail.com

Indian Mission in Algeria: Embassy of India, 14, Rue des Abassides, Post Box No. 108 El-Bias- 16030 Algiers, Algeria. Tel: 00-213-21-923288: Fax: 00-213-2-924011.

Email: indemb@wissal.dz

4. Andorra

Principality of Andorra (Principat d' Andorra)



Capital: Andorre-la-Vieille; Area: 464 sq.km; Population: 71,201; Languages: Catalan,

French, Castilian; Religions: Predominantly Roman Catholic; Literacy: 100%; Life Expectancy: 83.5; Currency: Euro (\$1=0.79120): p.c.i: \$ 24,000; Date of Independence: 1278 (was formed under the joined suzerainty of the French count of Foix and the Spanish bishop of Urgel).

Government Type: Parliamentary Democracy; Head of State: President of France and the Bishop of Urgel (Spain) as co-princes. Head of govt: Albert Pintat Santolaria.

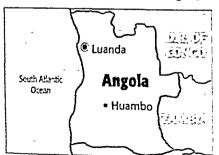
History: The co-principality of Andorra, founded in 1278, lies in the valleys of Eastern Pyrenees, between France and Spain.

Andorra, autonomous and semi-independent, got a constitution in 1993, adopted a parliamentary system and became the 184th member of the UN. It is nominally subject to the suzerainty of France and the Bishop of Urgel in Spain. The government is carried on by a council of 28 elected members.

Economy: Andorra is an agricultural country. Crops: cereals, potatoes and tobacco. Products: iron, lead, alum, stone and timber. Tourism especially skiing is the main source of income.

5. Angola

Republic of Angola (Republica de Angola)



Capital: Luanda; Other Large Cities: Huambo, Lubango; Area: 1,246,699 sq.km; Population: 12,127,071; Languages: Portuguese, Bantu; Religions: Indigenous beliefs 47%, Roman Catholic-38%, Protestant-15%; Literacy:

Angolan Media

Angola's only daily newspaper, Journal de Angola, and the terrestrial TV service TPA are state-owned. Private radio stations operate in the main cities, including Catholic station Radio Ecclesia, but staterun radio is the only available broadcaster across much of the country.

66.8%; Life Expectancy: 36.79; Currency: Readjusted Kwanza (\$1=80.3749); p.c.i: \$ 3,200; Date of Independence: 11th November, 1975.

Government Type: Republic; President: Jose Eduardo dos Santos; PM: Fernando da Piedade Dias dos Santos.

History: Angola, (formerly Portuguese West Africa), which lies in South West Africa on the Atlantic coast, became an independent state in 1975.

A 16-year Civil War ended in 1991 but fighting between MPLA (People's Liberation Movement of Angola) and UNITA (National Union for the Total Independence of Angola) broke out again. Elections were held in 1992 but fighting continued into 1993 and 1994. A new peace treaty was signed in Nov. 94 but little was gained. In August, '95, rebel (UNITA) leader Jonas Savimbi accepted the invitation to become Vice President in a coalition government to be formed after nearly two decades of civil war that devastated the country.

Apr.11, 1997, saw a ceremony marking the end of the Angolan civil war that killed half a million people, and the formation of a national unity government. In March, '98, Angolan govt, legalised UtilTA, Another deadline was set for the final implementation of the Lusaka Protocol marking the end of civil war in Angola. August saw signs of the country sliding back into old tribal and regional animosities. The UN ended its mission in Angola in March '99. Rebels captured most parts of the country. Jonas Savimbi, the UNITA leader, was killed in 2003.

Economy: Food crops: millet, maize, bananas and cassava. Cash crops: coffee, cotton, oil palm and sisal. Industries: textiles, brewing, cement, oil refining and sugar. Producing 700,000 barrels a day. Angola is the second largest oil-producer in sub-Saharan Africa (behind Nigeria). Angola produces

about one-tenth of the world's gemstones.

Exports: crude petroleum, coffee, diamonds, iron ore, fish, sisal and timber.

Recent Events: Outbreak of the killer

Marburg virus claimed 180 lives in the Angolan town Viga.

Mission in India: Embassy of the Republic

of Angola, 5/50 F, Nyaya Marg, Chanakya puri, New Delhi-110 021; Tel: 26110701, 26882680; Fax: 26110701, 24673787.

E-mail: xietuang@del2.vsnl.net.in.
Consulate: Mumbai: Tel:22851430/1457/

6070,Fax:22875467.
E-mail: maria@bom3. vsnl.net.in
Indian Mission in Angola: 18A Rua Marques

das Minus, Caixa Postal 6040, Maculusso, Luanda, Angola. Tel: (00 2442) 392281, 371089, Fax (00 2442) 371094.

E-mail: indembluanda@ebonet.net

6. Antigua & Barbuda



Capital: St. John's; Area: 442 sq km; Population: 69,108; Languages: English and Patois; Religions: Predominantly Protestant, some

Roman Catholic; Literacy: 85.8%; Life Expectancy: 72.16; Currency: East Caribbean Dollar US (\$1=2.70); p.c.i: \$ 11,000; Date of Independence: 1st Nov., 1981.

Government Type: Constitutional monarchy with UK-style Parliament; Governor-General: James Carlisle; PM: Wintson Baldwin Spencer.

History: Antigua and Barbuda, part of the Islands of British West Indies, comprises three Islands: Antigua, Barbuda and (uninhabited) Redonda. Columbus landed on Antigua in 1493. Became independent on Nov. 1, 1981.

The population is of mixed European-Negro origin. About 3000 refugees fleeing a volcanic eruption on Montserrat have settled in Antigua since 1995.

Economy: The economy is agricultural. Main exports: Sugar and sea island cotton. Tourism is a major source of income. Manufactures: garments, fans, refrigerators and rum.

Mission in India: Embassy of Antigua & Barbuda stationed at New York.

7. Argentina

Argentine Republic (Republica Argentina)



Capital: Buenos Aires; Other Large Cities: Cordoba, Rosario, La Plata, Mendoza; Area: 2,766,654sq.km; Population: 39,921,833; Languages: Spanish, Italian; Religions: Roman Catholic-92%, Protestant-2%, Jewish-2%, Others-4%; Literacy: 97.1%; Life Expectancy:

76.12; Currency: Peso (\$1=3.97859); p.c.ī: \$ 13,100.; Date of Independence: \$^\text{m} \text{ July,} \$ 1816

Government Type: Republic; Head of State & Govt (President): Nestor Carlos Kirchner.

History: Argentina, the second largest state in 5. America, lies at the tip of South America extending to some 3700 km from Bolivia to Cape Horn. Its maximum width is 1500 km. Argentina proclaimed its independence in 1816. A military junta deposed Isabel Peron's government in 1972. Return to civilian rule in 1983. In 1982, Argentina lost the Falkland Island war to Britain.

Economy: Argentina abounds in deposits of coal, lead, copper, zinc, gold, silver, sulphur and oil. Meat packing is the chief industry, with flour milling coming second. Others are chemicals, textiles, machinery, motor vehicles, paper and consumer durables. Agriculture and animal husbandry form important segments of the economy. Chief crops: grains, maize, grapes, linseed, sugar, tobacco, rice, citrus fruits, livestock products. Argentina is the world's largest source of tannin.

Argentina has been in the news in recent years because of severe economic problems, foreign debt and inflation.

In 2002, former dictator Gen. Leopoldo Galtieri was arrested and charged with the murder of suspected dissidents two decades ago.

Recent Events: In January 2006, Argentina repaid its multi-billion-dollar debt to the IMF. In May, citing environmental concerns, Argentina filed a complaint against the construction of two pulp mills in neighbouring Uruguay at the International Court of Justice in The Hague.

Mission in India: Embassy of the Argentine Reputing 2-2, Anamo 1s retain, New Deln -1007021. Tels 51661982-84, 51661987, Fax:51661988.

E-mail: eind@mantra online.com

Indian Mission in Argentina: Embassy of India, Aida Cordoba 950, 4th Floor, (1054)

Buenos Aires, Argentina. Tel: 00-54-11-43934001, 00-54-11-4934156; Fax: 00-54-11-43934063.

È-mail:indemb@indembarg.org.ar Website:www.indembarg.org.ar

8. Armenia

Republic of Armenia (Haikakan Hanrapetoutioun)



Capital: Yerevan; Other Large Citles: Kirovakan, Kumarri; Area: 29,800 sq km. Population: 2,976,372; Languages: Acutenian; Religions: Armenian Apostolic 94,7%, Other Christian 4%, Yezhili-L.3%, Elteracy: 98.6%; Lile Expectancy: 71,84; Currency: the dram (\$1c422,500); p.c.l;\$-4,500; Date of Independence: 21% September, 1991.

Government Type: Republic; President: Robert Kocharyan; PM; Andranik Markarian,

History: A former Soviet republic, Armenia is bounded by Georgia, Azerbaljan, Turkey and Iran. Armenia is generally regarded as the first nation to formally adopt Christianity (eary 4th century). Despite periods of autonomy, over the centuries Armenia cane under the sway of vatious empires including the Roman Byzantine, Arab, Persian and Ottoman, During Word War I in the western portion of Armenia, Ottoman Turkey instituted a policy of forced resettlement coupled with other harsh pratices that resulted in an estimated 1 million Armenian deaths. The eastern area of Armenia was ceded by the Ottomans to Russia in 1828; this portion declared its independence in 1918. but was conquered by the Soviet Red Army

n 1920. Armenian leaders remain preoccupied by the long conflict with Muslim Azerbaijan over Nagomo-Karabakh, a primarily Armenian populated region, assigned to Soviet Azerbaijan in the 1920s by Moscow. Armenia and Azerbaijan began fighting over the area in 1988.

Armenia has sought reunification with the Nagorno Karabakh autonomous region of neighbouring Azerbaijan. Soviet troops were sent to quell the ethnic civil war with Azerbaijan in Jan., 1990. Fighting between mostly Christian Armenia and mostly Muslim Azerbaijan escalated in '92 and continued in '93 and '94. A ceasefire was announced in May, '94. An earthquake in Dec., 1988 killed 55,000 and

left 500,000 homeless.
Russia's staunch ally, Armenia signed a treaty in Apr. '97 allowing Russia to operate

military bases in Armenia for 25 years.

Economy: It is a mountainous country with very fertile soil and extensive irrigation. Important crops: Grains, potatoes, olive, almonds, grapes, cotton, dairy products. Natu-

ral resources: Copper, zinc, aluminium, molybdenum, marble, granite, cement. Industry: Chemical, cement, textiles, food industries, carpet-weaving.

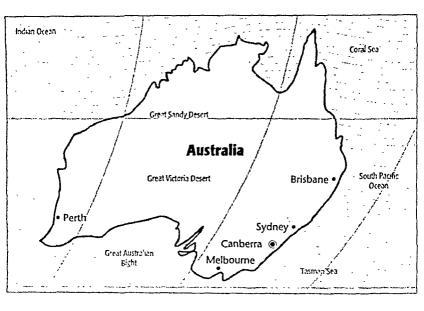
Mission in India: Embassy of the Republic of Armenia, E-1/20, Vasant Vihar, New Delhi–110 057. Tel: 26147328, 26153031; Fax: 26147329. E-mail: armemb@vsnl.com E-mail: armemb@vsnl.com

Indian Mission in Armenia: Embassy of India,50/2,PionerakanStreet,Yerevan-375019; Tel: 00-374-1-539173, 538288; Fax: 00-374-1-533984. E-mail:inemyr @arminco.com

9. Australia

Commonwealth of Australia

Capital: Canberra; Other Large Cities: Sydney, Melbourne, Brisbane, Perth, Adelaide; Area: 7,682,300 sq. km; Population:20,264,082; Languages: English and aboriginal languages; Religions: Catholic-26.4%, Anglican-20.5%, Other Christian-20.5%, Buddhist-1.9%, Muslims-1.5%, other-1.2%, unspecified - 12.7%,



none-15.3%; Literacy: 99%; Life Expectancy: 80.5%; Currency: Australian Dollar US (\$1=1.35); p.c.i: \$ 31,900; Date of Independence: 1st January, 1901.

Government Type: Democratic; Governor-General: Maj. Gen. Michael Jeffery; PM: John Winston Howard.

History: Before the arrival of European settlers, Aboriginal and Torres Strait Islander peoples inhabited most areas of the Australian continent. The first recorded European contact with Australia was in March 1606, when Dutch explorer Willem Janszoon charted the west coast of Cape York Peninsula, Queensland. Later that year, the Spanish explorer Luis Vaez de Torres sailed through the strait separating Australia and Papua New Guinea. Over the next two centuries, European explorers and traders continued to chart the coastline of Australia, then known as New Holland. In 1688, William Dampier became the first British explorer to land on the Australian coast. It was not until 1770 that another Englishman, captain James Cooke, aboard the Endeavour, extended a scientific voyage to the South Pacific in order to further chart the east coast of Australia and claim it for the British crown. Six colonies were created in the late 18th and 19th centuries; they federated and became commonwealth of Australia in 1901. The non-indigenous population at the time of Federation was 3.8 million. Half of these lived in cities, three-quarters were born in Australia, and the majority were of English, Scottish or Irish descent.

Australia is a Federation with power divided broadly between the national government and the state governments. The states are New South Wales, Victoria, Queensland, South Australia, Western Australia, Tasmania, Northem Territory and Australian Capital Territory.

About 352,970 people identified themselves as being of indigenous origin, at the 1996 census. About half the aborigines live in cities or towns. They participate at all levels of life of the Australian community. Many aborigines still live in the remote areas of Australia and prefer traditional tribal oriented lifestyles. The boomerang was invented by the aborigines who have been there for more than 40,000 years.

In March 1986, Queen Elizabeth II signed the Proclamation of the Australia Act 1986, which severed Australia's last remaining constitutional links with Britain. Queen Elizabeth is formally Queen of Australia. In Feb., 98 Australians discussed at a constitutional convention whether to become a republic, with majority of delegates thinking that British queen as head of state is an outdated idea. However, opinion polls favoured monarchists.

Economy: Australia has now developed into a modern industrial nation built upon the solid foundation of an efficient and productive agricultural system and large reserves of minerals. Australia is an important producer and exporter of a wide range of agricultural products especially wool (Australia is the world's leading wool producer), wheat and meat and its mines provide minerals and metals of many types including coal, iron-ore, bauxite, gold, silver, lead, zinc, copper, nickel, oil and natural gas for use by local and overseas industries. The largest employer is the retail sector, but many others work in catering-which also involves feeding more than four million tourists who arrive each year. The three best known icons of the country are Ayers Rock, the Great Barrier Reef and the Sydney Opera House, in addition to a bevy of world-class theme and heritage parks.

Australia has many unique plant and animal species including kangaroos, koalas, platypuses, dingos, Tasmanian devils, wombats and frilled lizards.

Australian external territories: Norfolk Island, Coral Sea Islands Territory, Territory of Ashmore and Cartier Islands, Cocos (Keelma) Island, Kiritimati (Christmas Island) and Australian Antarctic Territory, the Heard Islands Mc Donald Islands.

Recent Events: In January, 2006, Australia and East Timor signed a deal to divide billions of dollars in expected revenues from oil and gas deposits in the Timor Sea. Under the agreement, discussions on a disputed boundary were postponed.

Mission in India: High Commission for Australia, 1/50-G, Shantipath, Chanakyapuri, New Delhi-110?021. Tel: 51399900, 51221000 (Visa). E-mail: mark.webster@dfat. gov.au. Web: ausgovindia.com

Indian Mission in Australia: High Commission of India, 3-5, Moonah Place, Yarralumla, Canberra ACT-2600, Australia. Tel: 00-61-2-62733999; 62733774, 00-61-2-62735479 (After office hours); Fax: 00-61-2-62731308, 6273328 (HC Office).

E-mail: consularcanb@bigpond.com (Consular); hcoffice@bigpond.com (HC).

10. Austria

Republic of Austria (Republik Osterreich)



Capital: Vienna; Other Large Cities: Graz, Linz, Salzburg, Innsbruck; Area: 83,858 sq.km; Population: 8,192,880; Languages: German; Religions: Roman Catholic-74%, Protestant-5%, Islam-4%, others-17%; Literacy: 98%; Life Expectancy: 79.07; Currency: Euro(\$1=0.79120); p.c.i: \$32,700; Date of Independence: 1156.

Government Type: Federal Republic; President: Heinz Fischer; Head of Govt: Chancellor Wolfgang Schuessel.

History: Famous for its spectacular moun-

tains scenery, Austria is no longer the dominant political force it was in Central Europe under the Hapsburg dynasty which ruled under the first world war. A republic since 1918, Austria, which was invaded by Nazi Germany in 1938, regained full sovereignty in 1955. Austria is a federal state of nine provinces. Austria joined the EU on Jan. 1, 1995. Over 65 per cent of the country is mountainous. The Danube is the main river. Forests cover about 40 per cent of the land, a greater proportion than in any other European country, apart from Sweden and Finland. The highest mountain is the Gross-glockner (12,465').

Economy: It depends mainly on mining, manufacturing, trade and services. Most Austrian are now employed in service industries, from banking to transport. Main agricultural products: livestock, forest products, grains, sugar beets, potatoes.

Austria is rich in mineral and energy resources, and both mining and energy production are nationalized industries. The country is the world's largest producer of magnesite, used in the chemical industry. Other materials mined include iron ore, lignite (brown coal), graphite, salt, quartz and clay. Austria is the world's fifth largest exporter of coniferous sawn timber. Services account for the largest share (60%) of GDP.

Mission in India: Embassy of Austria, EP-13, Chandragupta Marg, Chanakyapuri, New Delhi-110021. Tel: 26889050/049/; Fax: 26886929/26886033

E-mail: new-delhi-ob@bmaa.gv.at

Indian Mission in Austria: Embassy of India and Permanent Mission of India to the UN Offices in Vienna, Kaerntnerring 2, A-1015 Vienna, Austria. Tel: 00-43-1-5850795; Fax: 00-43-1-5059219

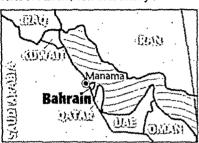
E-mail: indemb@eoivien.vienna.at; Web: www.indiaembassy.at



grown. Industries: Tourism accounts for around 40% of GDP and employs a similar proportion of the workforce. Tourism(70% of GDP), banking and investment management.

13. Bahrain

State of Bahrain/Dawlat al-Bahrayn



Capital: Manama; Area: 669 sq.km.; Population: 698,585; Languages: Arabic, English, Farsi, Urdu; Religions: Muslim(Shi'a and Sunni) -81.2%, Christian - 9%, other-9.8%; Uteracy: 89.1%; Life Expectancy: 74.45; Currency: Bahraini Dinar (\$ 1 = 0.377); p.c.i: \$23,000; Date of Independence: 15th August, 1971.

Government Type: Constitutional Hereditary Monarchy; Head of State: King Hamad bin Isa Al-Khalifa; PM: Shaikh Khalifa bin Sulman Al-Khalifa.

History: Bahrain, a British protectorate for 90 years, became an independent state on Aug. 15, 1971. It is an Arab state comprising 33 small islands in the Arabian Gulf. Bahrain is the biggest of the islands and has lent its name to the whole archipelago. It is an independent monarchy.

The traditional occupations of cattle breeding, agriculture and fishing are still practised but many modern industries have also come up. Oil accounted for the lion's share of the state revenues but by 1970s, oil reserves were depleted. International banking is a major activity today.

minium, ship building & repairs, electronics assembly, building materials, and banking. The people enjoy a very high standard of living. Education is free upto the secondary level and heavily subsidised with scholarships at higher levels. The population is 83% urban. Every fourth resident of Bahrain is an Indian.

Economy: Agriculture: Fruits and veg-

etables, alfalfa, dates, poultry. Industry: Alu-

Petroleum production and refining account for about 60% of export receipts, 60% of government revenues, and 30% of GDP. A large number of exports consist of petroleum products made from refining imported crude.

This archipelgo manages some 85\$ billion in offshore banking assets. Financial institutions are attracted by a skilled work force, good communications and a regulatory system considered the most effective in the region. The country long ago branched into industries such as aluminium refining, ship repair and petro chemicals. It also does a tidy business as a tourist destination for Saudis.

Consulate: 5th Floor, Maker Tower, F Cufi Parade Road, Colaba, Mumbai-4007005. Tel 2185856; Fax: 2188817

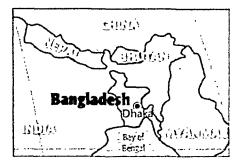
Indian Mission in Bahrain: Embassy of India, Building 182, Road 2608, Area 326, Ghudaíbíya, P.O. Box No.26106, Adliya, Baharain. Tel:00-973-712683,712832,712785; Fax:00-973-715527.

E-mail: indiacon@batelco.com.bh
Website: http://www.indianembassy-bh.com

14. Bangladesh

(People's Republic of Bangladesh; Gan: Prajatani Bangladesh)

Capital: Dhaka; Other Large Cities Chittagong, Khulna; Area: 148,393 sq.km Population: 147,365,352; Languages; Bangla Chakma, Magh; Religions: Islam-83%, Hindu 16%, others-1%; Literacy: 43.1%; Life Expect



ancy: 62.46; Currency: Taka (US \$1=69.48); p.c.i:\$2,100; Date of Independence: 16th December, 1971.

Government Type: Parliamentary Democracy; President: Jaujuddin Ahmed; PM: Begum Khaleda Zia.

History: Bangladesh is surrounded by India, Myanmar and the Bay of Bengal.

A republic in south Asia, Bangladesh was formerly East Pakistan, one of the five provinces into which Pakistan was divided at its creation, when Britain's former Indian Empire was partitioned in August 1947. East Pakistan and the four western provinces were separated by about 1,600 km of Indian territory. East Pakistan was formed from the former Indian province of East Bengal and the Sylhet district of Assam. Although the East was more populous, government was based in West Pakistan. From the very inception of its formation, language remained the most problematic issue. Same status for Bengali language with Urdu and English was the demand and the movement involving all sections of the people of East Pakistan gave a strike call on 21 Feb, 1952. On that very day, police fired on a students' rally and several students died. Since then the day has been observed as the Language Day (Bhasa Divas).

East Pakistan became an independent entity named Bangladesh on 16 December, 1971, following civil war in which India actively supported the East. Leader of this independence movement, Sheikh Mujibur Rahman became the first Prime Minister.

In January 1975 parliamentary government was replaced by a presidential form of govemment. Sheikh Mujib became President, assuming absolute power. In February, Bangladesh became a one-party state.

On 15 August, 1975 Sheikh Mujib and his family were assassinated in a coup. Chief of Army Staff, Major-Gen. Ziaur Rahman (Gen. Zia) took over power on 7 November, 1975. In June 1978 the country's first direct presidential election resulted in a victory for Zia. who formed a Council of Advisers, Parliamentary elections followed in February 1979 in which President Ziaur Rahman's Bangladesh Nationalist Party (BNP) won 207 of the 300 directly elective seats in the Jatiya Sangsad.

Political instability recurred, however, when Gen. Ziaur was assassinated on 30 May 1981 during an attempted military coup. The elderly Vice-President, Justice Abdus Sattar, took over as acting President but was faced with strikes and demonstrations over the execution of several officers who had been involved in the coup.

On 24 March, 1982 there was a bloodless military coup, by which Lieut. Gen. Ershad became chief martial law administrator. President Sattar was deposed. The Constitution was suspended and parliament ceased to function. Assanuddin Chowdhury was sworn in as civilian president on 27 March, Lieut, Gen, Ershad assumed the presidency on 11 Dec., 1983

Although the Government's economic policies achieved some success and gained a measure of popular support for Ershad, the all party alliance of MRD-Movement for the Restoration of Democracy-gained momentum.

In Ian, 1986 a National Executive Committee was formed and the National Party launched, composed of government supporters. Gen. Ershad was re-elected President on 15 October, 1986. The National Party won the general election of March 1988.

Gen. Ershad was deposed and arrested 25 ter a popular uprising in December 1900 3 "

Shahabuddin Ahmed took over as Acting President. In the general elections held in February 1991 Bangladesh National Party led by Begum Khaleda Zia won 140 seats. Begum Zia was sworn in PM. In the general elections held in June, 1996, Awami League won 146 seats and Sheikh Hasina Wazed, daughter of the late Sheikh Mujibur Rahman, became the PM of Bangladesh. Jatiya Party quit the govt. in Mar. '98.

Tribal Shanti Bahini guerrillas fighting for autonomy in the Chittagong Hill Tracts surrendered in Feb. '98, ending a 25-year insurgency that claimed more than 8500 lives.

Bangladesh is the second largest Muslim country in the world. Dhaka, with 2000 mosques, is known as the city of mosques. The total for the country is over 200,000. There are an estimated 1,200,000 tribal people in Bangladesh. Most of them (700,000) are in Chittagong Hill Tracts (CHT).

Economy: Although half of Bangladesh's GDP is generated through the service sector, nearly two-thirds of the people are employed in the agriculture sector, with rice as the single-most-important product. Plots of land are very small-measured in tenths of a hectare. Half the population still cannot afford to feed themselves properly. At independence in 1971, the US Secretary of State dismissed the new country as an 'international basket-case'.

Recent Events: In February, 2006, opposition Awami League ended year-long parliamentary boycott.

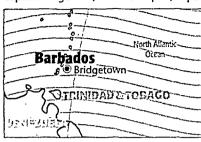
Mission In India: High Commission for the People's Republic of Bangladesh, EP-39, Dr.S.Radhakrishnan Marg, Chankyapuri, New Delhi - 110?021. Tel: 26878948-49; Fax: 26878953.

E-mail: dhcdelhi@mantraonline.com

Indlan Mission in Bangladesh: Hígh Commission of India. House No. 2, Road No.142, Gulshan-1, Dhaka, Bangladesh. Tel: 00-8802-9889339. E-mail: hc@hcidhakha.org

15. Barbados

Capital: Bridgetown; Area: 430 sq km; Popu-



lation: 279,912; Languages: English; Religions: Protestant-67% (Anglican 40%, Pentecostal-8%, Methodist-7%, others-12%), Roman Catholic-4%, none-17%, others-12% Literacy: 99.7%; Life Expectancy: 72.79; Currency: Barbados Dollar (BD) (\$1 = 2.00); p.c.i.: \$ 17,000; Date of Independence: 30% November, 1966.

Government Type: Parliamentary Democracy; Head of State: Queen Elizabeth II; Governor-General: Sir Clifford Husbands; PM: Owen Arthur.

History: The island of Barbados is the most easterly of the Caribbean islands, lying about 400 km north east of the mainland of South America. It is included in the Windward Isles. British settlers arrived in 1627. Slavery existed until 1834. Barbados became fully self-governing within the Commonwealth on Nov. 30, 1966. In 1997, a commission was appointed to consider abandoning all ties to Britain.

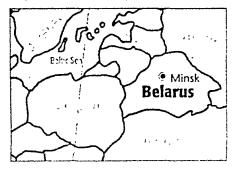
Economy: Agriculture and tourism dominate the economy of Barbados. Sugar, molasses, rum, electrical components and chemicals are major exports.

The island's economy has become diversified, thus reducing the importance of sugar. Services, especially tourism, are now the main source of employment. Industry: Light manufacturing, electronic component, sugar, food processing, beverages, rum, beer. Barbados'

Wildlife Reserve is home to two species of animals unique to the island-the green monkey and the large red-footed tortoise.

16. Belarus

(Republic of Belarus) Republika Belarus



Capital: Minsk; Other Large Cities: Gomel, Vitebsk; Area: 207,600 sq.km.; Population: 10,293,011; Languages: Belorussian, Russian; Religions: Eastern Orthodox-80%, others (Including Roman Catholic, Protestant, Jewish and Muslim)-20%; Literacy: 99.6%; Life Expectancy: 69.08; Currency: Rouble (\$1=2,144.0) p.c.i: \$6,900; Date of Independence: 25th August, 1991.

Government Type: Republic; Head of State: Aleksandr Lukashenko; PM: Sergei Sidorsky.

History: After seven decades as a constituent republic of the USSR, Belarus attained its independence in 1991. It has retained closer political and economic ties to Russia than any of the other former soviet republics. Russians form 13.2% of the population, Poles 4.1% and Ukrainians 2.9%.

In April, 1997, Belarus and Russia concluded a union treaty calling for the gradual creation of a confederation between the two Slavic nations.

Economy: Agriculture: Cattle-breeding for meat and dairy produce. Important Products: Potato, hemp, grain, flax, fodder. Natural resources: Valuable forest land wooded with oak, elm, maple; peat deposits. Industry:

motor vehicle, machine tools, agricultural machinery, peat, chemical fibre, paper, building materials, food processing, textile.

Mission in India: Embassy of the Republic of Belarus, 163, Jor Bagh, New Delhi-110 003. Tel: 24694518, 4697025; Fax:24697029.

E-mail: india@belembassy.org

Indian Mission in Belarus: Embassy of India, Ulitsa Koltsova 4, Block No.5, Minsk 220090, Belarus. Tel: 00-375-17-2629399, 267739; Fax:00-375-17-2629799.

E-mail: amb@open.by/indembminsk @indiatimes.com (Ambassadoir's Office)

17. Belgium

Kingdom of Belgium, Koninkrijk Bekgie (Dutch), Royaume de Belgique (French)



Capital: Brussels Other Large Cities: Antwerp, Ghent, Area: 30,521 sq.km; Population: 10,379,067. Languages: Flemish, French and German—all official; Religions: Roman Catholic-75°p, Protestant and others-25%; Literacy: 99°p. Life Expectancy: 78.77, Currency: Euro (\$1=0.7912); p.c.i: \$31,400 Date of Independence: 4th October, 1830

Government Type: Federal Padiamerum Democracy: Head of State: King Albert 1: 34: Guy Vernostrat.

History: Selgrum (in NW Europe or 1). Self named after the Belgae, people of and Gaul who crossed the Rhine about century B.C., has had a turbule became an independent.

During both the World Wars it was occupied by Germany but freed itself by the end of those wars. Belgium became a Federal State in February, 1993.

Economy: Although Belgium is essentially a manufacturing country, agriculture and forestry are also very important. Industry is concentrated mainly in the populous Flemish area in the north. The main crops are oats, rye, wheat, potatoes, barley and sugar beets. Coal is the country's only important mineral. Principal industries: steel and metal products, textiles, glass, fertiliser, sugar, heavy chemicals, etc. About 50% of the country's total production is exported. Roughly three-quarters of its trade is with other EU countries. Public debt is nearly 100% of GDP. Antwerp is the world's 4th largest port and also the world's biggest diamond-trading centre.

Language difference has been a source of unpleasantness. Transferring power from the central govt. to three regions—Wallouia, Flanders and Brussels—has been taken up by parliament.

The European Community has its headquarters in Brussels. There are international airports at Brussels and Antwerp.

Recent Events: Euthanasia and gay marriage have been legalized.

Mission in India: Royal Embassy of Belgium, 50-N, Shantipath, Chanakyapuri, New Delhi-110021. Tel: 26889851; Telefax: 26885821.

E-mail:ambabel@del2.vsnl.net.in

Consulate General of Belgium in Mumbai: Morena 11, M.L. Dahanukar Marg (Carmichael Road, Mumbai-400 026; Ph: +91 22 23515186, 23521602

Indian Mission in Belgium: Embassy of India, 217-Chaussee de Vleurgat, 1050, Brussels, Belgium. Tel: 00-32-2-6409928, 6409140; Fax: 00-32-2-6489638.

E-mail: infogen@missionindia-belgium.org Web:www.missionindia-belgium-org

18. Belize

Capital: Belmopan; Other Large Cities: Beliz City, Orange Walk; Area: 22,965 sq .kn



Population: 287,730; Languages: English Spanish, Creole dialects; Religions: Roma Catholic-49.6%, Protestant-27%, None 9.4%, others-14%; Literacy: 94.1%; Life Expectancy: 68.3; Currency: Belize Dollar (\$1 1.977); p.c.i: \$ 6,800; Date of Independence 21st September, 1981.

Government Type: Parliamentary Democracy; Governor-General: Colville Young; PM Said Musa.

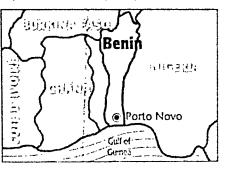
History: Belize, formerly known as Britis Honduras, is a Central American republic with the Caribbean Sea to the east. Originally British colony, it was granted autonomy in 1964 and became independent in 1981. The name Belize was adopted in 1973. The original capital Belize City was laid waste by hurricane in 1961. The capital was shifted to Belmopan, an inland town, in 1970.

More than half the population is made up of the so-called Creoles or English-speaking Negroes, found mostly in the coastal regions. The indigenous (Red) Indian population consists of Mayans and Kekchis who live mostly in the reserves.

Economy: Forest products, especially tim ber, form a major export item. Sugar, citrus fruits, corn and bananas form the major prod ucts. Maize, rice, kidney beans and sweet potatoes are the main domestic staples. Industries: Sugar, molasses, cigarettes, beer, garments, tourism. Wild life includes the curious creature manatee – an amphibian mammal- and several varieties of reptiles.

19. Benin

Republic of Benin, Republique du Benin



Capital: Porto Novo; Other Large Cities: Cotonou, Parakau; Area: 112,622 sq.km.; Population: 7,862,944; Languages: French and Tribal dialects like Fon, Yoruba; Religions: Indigenous beliefs-50%, Christian-30%, Muslim-20%; Literacy: 33.6%; Life Expectancy: 53.04; Currency: CFA Franc (\$1 =518.98); p.c.l: \$ 1,100; Date of Independence: 1"August, 1960.

Government Type: Republic under multiparty democratic rule; Head of State & Govt (President): Yayi Boni.

History: The People's Republic of Benin (formerly Dahomey) is located north of the Gulf of Guinea in West Africa. It is one of the smallest and most densely populated states in Africa.

Formerly one of the provinces of French West Africa, Benin became an independent state on Aug. 1, 1960. The country has been plagued by coups and counter-coups For some years Marxism-Leninism was the state ideology.

The first free presidential elections in 30 years were held in 1991. President Karakou was re-elected in March, 2001.

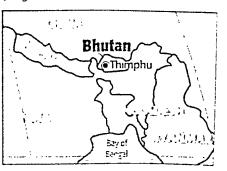
Economy: Products: palm oil, kernels, peanuts, cotton, coffee and tobacco. Food crops: Cassava, yams, maize, sorghum. Industry: Few factories. Palm oil-processing, brewing, sugar.

Mission In India: Embassy of Benin stationed at Beijing.

Honorary Consulate General, C-4, Sector-7, Noida, UP; Tel: 95120-24423373, 24423257; E-mail: sundert@ndf.vsnl.net.in

20. Bhutan

(Kingdom of Bhutan) Druk-Yul



Area: 46,500 sq.km; Capital: Thimphu Population: 2 279 723, Languages: Dzongkha chotsam (Nepali), English, Gurung, Assamese Religions: Buddhist-75%, Hindu & Nepalese-25%, Literacy: 47%; Lfg Expectancy: 54 78 Currency: Ngultrum, fixed at car with the Indian Rupee which is also legal tender \$1 =45 84); p.c.l; \$1,400; Data of Independence: 8th August, 1949.

Covernment Type: Monarchy, Head of State King Igme Singlye Wangdruk: Head of Covollangay Nige dup.

Fistery Tre Kingdom of Ehutan, "the en-IT THE Tunder dragon' lies in the ser rimalered content contributions of a 의 파트 ace by rdia. Ethac rej·프트 art made rates and this term

The first rereditary King of This 和自然工厂工作工作

سد مرسوم بد من سومی و ۱۳۰۰ تا ۱۳۰۰

eign relations under the supervision of the Government of British India. After India became

independent, that treaty was replaced in Aug. 1949 by the Indo-Bhutan Treaty of Friendship,

whereby Bhutan agrees to seek the advice of the Government of India with regard to its foreign relations, but remains free to decide

whether or not to accept such advice.

King Jigme Dorji Wangchuk was succeeded in 1972 by the Western-educated 16-year-old

Crown Prince, ligme Singye Wangchuk, The new King stated his wish to maintain the Indo-Bhutan Treaty and to strengthen friendship

with India. Bhutan joined the UN in 1971 and the Non-Aligned Movement in 1973. In 1983 Bhutan became a founder-member of the South Asian

Association for Regional Co-operation (SAARC). Bhutan is a monarchy, without a written constitution. In 1907 the Tongsa Penlop (the governor of the province of Tongsa in central

Bhutan), Sir Ugyen Wangchuk, was elected the first hereditary Maharaja of Bhutan. The Bhutanese title is Druk Gyalpo and his successor is now addressed as King of Bhutan, From Oct. 1969 the absolute monarchy was

changed to a form of democratic monarchy. The National Assembly (Tshogdu) was reinstituted in 1953. All Bhutanese over 25 years may be candidates. Ten monastic representatives are elected by the central and regional ecclesiastical bodies, while the remaining members are nominated by the King, and in-

clude members of the Council of Ministers (the Cabinet) and the Royal Advisory Council. The Royal Advisory Council (Lodol Tsokde), established in 1965, comprises 10 members. Council of Ministers is known as Lhengye Shungtsog. Recent reports indicate that the mountain kingdom is inching towards democracy. A po-

litical transformation is under way, its main

force being the reformist monarch Jigme

Wangchuk. A Royal edict placed before the

force the king to abdicate. The Assembly (its term: 5 years) will also throw up the Council of Ministers, one of whom will remain as chairman for a year. A draft constitution was re-

transition to market economy has changed

social life. Life expectancy: 49 years. Urban

population is 7%. Large deposits of limestone,

510-member National Assembly in June '98

said a two-thirds majority in the House could

leased in Dec. 2002. Economy: There are 20 districts. A Nepalese minority makes up 30-35% of the population.

Bhutan, by world standards is one of the poorest countries. Its economy is largely a subsistence economy. People are engaged in subsistence farming; and barter is practised. The

marble, dolomite, graphite, lead, copper, slate, coal, talc, gypsum, beryl, mica, pyrites and tufa have been found. Chief crops: Rice, millet, wheat, barley, maize, cardamom, potatoes, oranges, apples.

Extensive and valuable forests abound, Livestock includes cattle, yaks, pigs, sheep and

goats, and poultry. Industry: Food industry, cement, etc. Trade with India dominates. Free education is available, but there are

insufficient facilities to accommodate all school age children. Many students receive higher technical training in India.

All Bhutanese nationals are obliged to wear the national costume. Under law, Bhutanese women are treated as equal to men.

Though Bhutan for long resisted the lure of tourism, it is the principal source of foreign

exchange now. The Kingdom was opened to tourism in the autumn of 1974, Recent Events: In Dec. 2004. Bhutan became the first nation in the world to ban the

sale of tobacco and smoking in public. King Wangchuk released a draft of a new constitution in March 2005 which outlines plans for the country to shift from an absolute monarchy to a two-party democracy.

Mission in India: Royal Bhutanese Embassy, Chandra Gupta Maro, Chanakvanuri, New Delhi-110?021. Tel: 26889807, 26889809, 26889230; Fax: 26876710, 24674664.

E-mail: bhutan@vsnl.com

Indian Mission in Bhutan: Embassy of India, India House Estate, Thimphu, Bhutan. Tel: 00-975-2-322162; Fax: 00-975-2-323195, 325341.

E-mail:rmisra@druknet.net.bt

21. Bolivia

(Republic of Bolivia) Republic de Bolivia



Capital: La Paz (administrative) and Sucre (judicial); Other Large Cities: Santa Cruz, Potosi; Area: 1,098,581 sq.km; Population: 8,989,046; Languages: Spanish, Quechua and Aymara; Religions: Roman Catholic-95%, Protestant; Literacy: 87.2%; Life Expectancy: 65.84; Currency: The Boliviano (\$1=7.99); p.c.i: \$ 2,900; Date of Independence: 6th August, 1825.

Government Type: Republic; Head of State & PM(President): Juan Evo Morales.

History: Bolivia, a South American state, lies astride the Andes.

Originally part of the ancient Inca Empire, Bolivia became independent in 1825. It has been named after Simon Bolivar, the famous South American fighter for freedom. Bolivia. like most Latin American states, has had a number of coups and counter-cours. It me stored civilian rule in 1982 after ream T years of military regimes.

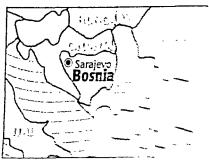
Lake Titicaca on the Peru-Economic Street is the highest lake in the word and

Economy: Agriculture, the mainstay of the country, engages 70 per cent of the people. Chief crops: Potatoes, sugar, coffee, corn. Tin mining was the most important industry, until 1985 when international tin market collapsed. Zinc, lead, antimony and tungsten are the other important minerals. Mining accounts for about 70% of foreign exchange earnings. Other industries: Textiles, food processing, refined petroleum. A privatisation programme affecting some 60 state-owned enterprises was launched in 1992. On August 5, 2002 Gonzalo Sanchez de Lozada, ਪ ਸਮੀlionaire businessman, was again elected to lead the nation for the next five years.

Mission in India: Embassi of Bolivia stationed at New York.

22. Bosnia-Herzegovina

(Republic of Bosnia and Herzegovina) Republika Bosna i Hercegovina



Capital: Surveyor Chrestones Chair of the Luke, Turn horasin same in 1200 -Population: 4,-9007: Computation &-Committee Committee Commit TH Arm Immedia 77.55.72 . The CHIEF THE SERVE 2007 (17 March 1992) Tres lines: 1022 Federa reconstitutions ()

Tredrer: Member ; 'Agentage Sterb'): Bu.

Member (Croat): Ivo Miro Jovic; Presidency Head of Govt: Adnan Terzic.

Republic of former Yugoslavia, Bosnia-Herzegovina is traditionally known as the powder keg of the Balkans, with its explosive ethnic mix of three groups (Muslim Slav-43%; Serbs-31%; Croats-17%; others-9%.) and its three religions (Muslims-40%, Catholics-15% and Orthodox-31%).

History: The country was settled by Slavs in the 7th century. Bosnia was conquered by Turks in 1463. At the Congress of Berlin (1878), the territory was assigned to Austro-Hungarian administration under nominal Turkish suzerainty. Austria-Hungary's outright annexation in 1908 generated international tensions which contributed to the outbreak of World War I.

Croats and Muslims voted for independence in Oct. 1991. A referendum for independence was passed in Feb, 1992. A 'Serb republic' was formed in the predominantly Serb-populated Bosnian territories, Serbs' opposition to the referendum spurred violent clashes. In April, independence of the republic was recognised by U.S. and E.U. Fierce fighting continued. Serbs massacred thousands of Bosnian civilians, By mid-'94 three-fourths of Bosnia came under Serb control.

Peace talks were held but Serb-Muslim-Croat fighting continued. In '93, negotiations resumed to partition Bosnia. In July an ineffective ceasefire was in force. A peace plan authored by USA, UK, France, Germany and Russia was under consideration. NATO launched a series of massive air raids on Serbian positions and Sarajevo and in Serb-held Bosnian territory in August, '95 after the shelling of Sarajevo market by Serb gunmen.

In Sept., '95, Bosnia's warring sides decided to put an end to the three and a half-year-old war by cutting the nation into two parts: one for the rebel Serbs and the other for Muslims and the Croats. In Oct., a ceasefire was to come into effect but Serbs were reportedly engaged in a new 'ethnic cleansing' operation.

the fragile truce imposed by the Dayton a cords was reaffirmed at a summit in Rome. March, Sarajevo, divided by war for almost fo years, was reunited as the last of five Serb eas passed to the Muslim-Croat federation. July, UN war crimes tribunal issued arrest w rants for Bosnian Serbs' political lead Radovan Karadzic, who later agreed to st down. In Sept., elections were held for a person collective presidency and for seats in

February 96 saw the end of the war a

In Mar. 98, US and its NATO allies decid to keep the international peace-keeping for in Bosnia (31,000 troops) through end 1998. The Dayton peace agreement failed knitting the three communities into a single state.

federal parliament.

Economy: Agricultural products: Whe maize, potatoes, plums, timber, cattle, she Industry: Textiles, timber, rugs, cement, el tricity, coal, steel. The war has destroyed 95 of industrial capacity.

Recent Events: In January 2006, Christ Schwarz-Schilling took over from Pad Ashdown as UN High Representative. In Fe ruary, International Court of Justice in T Hague began hearings in genocide ca brought by Bosnia-Hercegovina against Ser and Montenegro. In July, largest war crin trial to date over the 1995 Srebenica mas cre opened at the UN tribunal in the Hagu

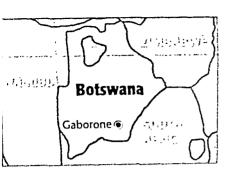
Mission in India: Embassy of Bosnia Herzegovina, C-7/9, Vasant Vihar, New Del 110 057. Tel: 26147415, 26147416; F 26143042.

E-mail: bos_her@starith.net

23. Botswana

(Republic of Botswana)

Capital: Gaborone; Other Large Citie Francistown, Lobatse; Area: 581,730 sq. k Population: 1,639,833; Languages: Englis Setswana and Sishona; Religions: Christia



71.6%, Badimo-6%, other-1.4%, unspecified-0.4%, none-20.6%; Literacy: 79.8%; Life Expectancy: 33.74; Currency: Pula (\$1=5.86); p.c.i: \$ 10,500; Date of Independence: 30th September, 1966.

Government Type: Parliamentary Republic; Head of State & Govt (President): Festus Mogae.

History: The Republic of Botswana - the land of the Batawana tribes - (formerly known as Bechyanaland) is located in Southern Africa. Most of the country is near-desert, with the Kalahari occupying the western part of the country. Botswana became independent in Sept. 1966 and assumed its present name.

Rural population is 80% and population growth rate 3.5%. The country is divided into 10 districts.

Economy: Cattle industry is the most important economic activity. Important crops: Sorghum, corn, millet, beans. Beef is the main export. Diamonds, manganese, asbestos, coal, copper and nickel are leading mineral resources. The economy is closely tied to that of South Africa, Botswana's per capital income grew 9.2% between 1965 and 1995 But in 2001, the country had the Fighest rate of HIV infection in the world.

Mission in India: Embassy of Botherana stationed at Tokyo.

Indian Mission in Botsware: Fig. Commission of India, Plot 5375, Presidents Conje Private Bag 249, Gaborone, Bottingha, Tel: 00-267-372676; Fax: 00-257-374535

E-mail:hicomind@info.bw

24. Brazil

(Federative Republic of Brazil) - Republica Federativa do Brasil



Capital: Brasilia; Other Large Cities: Sao Paulo, Rio de Janeiro, Belo Horizonte, Recife, Salvadore; Area: 8,511,965 sq.km; Population: 188,078,227; Languages: Portuguese (official), Spanish, English, French; Religions: Roman Catholic (nominal)-73.6%, Protestant-15.4%, Spiritualist-1.3%, Bantoo/Voodoo-0.3%, other-1.8%, unspecified-0.2%, none-7.4%; Literacy: 86.4%; Life Expectancy: 71.97; Currency: Real (\$ 1= 2.25); p.c.i: \$ 8,400; Date of Independence: 7th September, 1822.

Government Type: Federative Repub ⊆ President: Luiz Inacio Lula da Silva.

History: Brazil, the largest South American state, lies more or less in the centre of Source America. It borders every nation on the continent except Chile and Ecuador. It is a long of dense forests and mighty meeting zon and the Sao Francisco co the country.

Brazil was a Portuguese عصرية المناسبة المناسبة المناسبة المناسبة المناسبة المناسبة المناسبة المناسبة المناسبة declared a kingdom in 1815. The Ti ploitable wealth early عصابة wood that produced red are pau-brasil, from ਅਜੀਵੀ its name. Monathy and a republic der control in 1954 Dut restored in 1925

Until the 1970s Brazil was an almost entirely Catholic country. But a 1998 unofficial survey found that one in six Brazilians now profess loyalty to mainly protestant evangelical churches.

About 75% of Brazil's population row live in the cities. Brasilia, a showpiece of modern architecture and town planning, was declared the capital on April 21, 1960.

quarter of the labour force works in industry. Brazil's industry has benefited from its wealth of mineral resources. The major exports of Brazil are soyabeans, sugar, coffee, iron ore,

Economy: In many respects, Brazil is an ad-

vanced industrial economy. Around one-

cocoa beans, maize, sisal and tobacco. (world's largest exporter of flue-cured tobacco). Agriculture accounts for 9% of GDP. The contribution of industry and services to GDP is 32% and 59% respectively.

Brazil is one of the world's top eight producers of agricultural commodities. The number one coffee producer for more than a century, Brazil also leads in oranges, orange juice

concentrate, alcohol, sisal, cassava and bananas. It has the planet's largest commercial cattle herd, and comes only to the United States in soya production and to India in sugar cane output.

Brazil possesses vast deposits of mineral wealth—chrome ore, iron, phosphates, uranium, manganese, copper, coal, platinum and gold. Oil is a state monopoly. The wax which is used for phonograph records and insulation is a monopoly product of the state. Brazil is the only source of high grade quartz crystal in commercial quantities.

In August, 1992, Brazil's foreign debt of \$ 123 billion was the developing world's highest, its inflation rate was close to 250%, the highest in Latin America. Currency devalution and crisis added to instability in 1999. Lula da Silva was inaugurated 36th President of Brazil on Jan.1, 2003-Brazil's first working-class President.

Recent Events: In May, 2006, scores of people were killed in gang attacks and a police backlash in Sao Paulo state. The violence was sparked by a series of prison uprisings.

Mission in India: Embassy of Brazil, 8, Aurangzeb Road, New Delhi-110?011. Tel: 23017301; Fax:23793684; E-mail: brasindi@vsnl.com

Consulate: Mumbai:Tel:22002236/2256/7511/1796. Fax:22009456

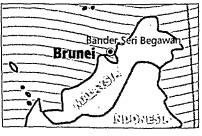
E-mail: brazilcons@rediffmail.com
Indian Mission in Brazil: Embassy of Indian

Indian Mission in Brazil: Embassy of India, SHIS-QL-08, Conj. 08 Casa 01 Lago Sul, CEP-71620-285, Brasilia DF,Brasil, Tel: 00-55-61-248-4006 (4 lines) Fax: 00-55-61-2485486/ 7849.

E-mail:indemb@indianembassy.org.br Web: www.indianembassy.org.br

25. Brunei

(Brunei Darussalam) State of Brunei Darussalam Negara Brunei Darussalam



Capital: Bander Seri Begawan (formerly called Brunei Town); Area: 5,765 sq.km; Population: 379,444; Languages: Malay, English, Chinese; Religions: Muslim-67%, Buddhist-13%, Christian-10%, Indigenous beliefs and others-10%; Uteracy: 93.9%; Life Expectancy: 75.01; Currency: Brunei Dollar (\$1=1.69); p.c.i: \$23,600; Date of Independence: 1" January, 1984.

Government Type: Constitutional sultanate; Sultan and PM: Haji Hassanal Bolkiah.

History: Negara Brunei Darussalam on the

northern side of the island of Borneo lies between two Malaysian territories, Sabah and Sarawak. Brunei Malays, mostly Muslims, form more than half of the population. The Sultanate, once a powerful and independent kingdom, was annexed by Britain and was granted full internal autonomy in 1971. Became a fully sovereign and independent state on Jan. 1, 1984.

Economy: Oil and natural gas are Brunei's most valuable resources. Much of Brunei's oil comes from the offshore Ampa field. Over 40% of GDP is derived from oil and gas exports. Rice is the chief food crop. Also grown are bananas, vegetables, cassava and pepper. Other crops are coconuts, sago, cork and rubber. Rubber is an export item. The Sultan of Brunei is one of the world's richest men. The Sultan's son Prince-al-Muhtadee Billah is the heir to Brunei's throne.

Recent Events: • Prince Billah married a commoner in September 2004.

Mission in India: Brunei Darussalam High Commission, A- 4, Poorvi Marg, Vasant Vihar, New Delhi-110?057. Tel: 26148340, 26148343; Fax: 2614 2101.

E-mail: suhtindb@del3.vsnl. net.in

Indian Mission in Brunel: High Commission of India, 'Baitussyifaa', Simpang 40-22, Jalan Sungai Akar, Bandar Seri Begawan BC 3915, Brunei Darussalam. Tel: 00-673-2-339947; Fax: 00-673-2-339783.

E-mail:hicom ind@brunet.bn Web: brunet.bn/gov/emb/india

26. Bulgaria

(Republic of Bulgaria) - Republika Bulgaria Capital: Sofia; Other Large Cities: Plovdiv, Dobrich; Area: 110,912 sq km; Population: 7,385,367; Languages: Bulgarian, Turkish; Religions: Bulgarian Orthodox-82.6%, Muslim-12.2%, others-5.2%; Literacy: 98.6%; Life Expectancy: 72.3; Cur-



rency: Lev (\$1=1.54); p.c.i: \$ 9,600; Date of Independence: 3rd March, 1878.

Government Type: Parliamentary Democracy; President: Georgi Purvanov; PM: Sergei Stanishev.

History: Situated on the Black Sea in eastem Balkan Peninsula, Bulgaria was founded in 681. Monarchy was abolished and a people's republic was proclaimed in 1946. The country's first free election after four decades of communist rule was held in 1990, and an 11-member Corporate Presidency was elected to power. In Oct. 1991, a non-communist government was elected. In Apr. '97 Bulgaria's reformist Union of Democratic Forces scored a resounding victory in parliamentary elections. The country became a member of NATO in 2003.

Economy: Principal products: Grains, tobacco, fruits, vegetables. Minerals: Coal, iron ore, copper, lead and zinc. Industry: Crude steel, pig iron, cement, chemicals, textiles, processed food.

Mission in India: Embassy of the Republic of Bulgaria, EP 16/17, Chandragupta Marg, Chana-kyapuri, New Delhi - 110?021. Tel: 26115549, 26115551, 24108048; Fax: 26876190.

E-mail: bulemb@mantraonline.com Website: www.bulgariaembindia.com Indian Mission in Bulgaria: Embassy ರ್ ಗ

dia, 31, Patriarch Evtimii Blvd., Some Bulgaria. Tel: 00-359-2-9867 359-2-9801289, 9814124.

E-mail: india@ inet.ba%

27. Burkina Faso



Capital: Ouagadougou; Other Large Cities: Koudougou, Banfora; Area: 274,200 sq km; Population: 13,902,972; Languages: French and Sudanic tribal languages; Religions: Tribal beliefs-40%, Muslim-50%, Christian-10%; Literacy: 26.6%; Life Expectancy: 48.85; Cur-

; Date of Independence: 5th August, 1960. Government Type: Parliamentary Republic; Head of State: Blaise Compaore.

rency; CFA Franc (\$1=518.98); p.c.l; \$1,300

History: The Republic of Burkina Faso in West Africa is a landlocked state surrounded by Mali, Niger, Benin, Togo, Ghana and Cote D' Ivoire.

Formerly a province of French West Africa called Upper Volta, the country gained full independence in 1960. Name changed to Burkina Faso in 1984.

Economy: It is almost exclusively an agricultural country with 80 per cent of the population dependent on agriculture. Livestock raising is highly developed. Principal crops are sorghum, millet, yams, cotton, rice, peanuts and karite. Industry is limited to local handicrafts and processed agricultural products. The country is heavily dependent on foreign aid. Some 2 million of its citizens live in nearby countries, most of them in Cote D' Ivoire and Ghana. Life expectancy: male 45, female 47.

Mission in India: Embassy of Burkina Faso G-5, Anand Niketan, New Delhi-110 021. Tel:?24671678, 24671679: Fax: 24671745.

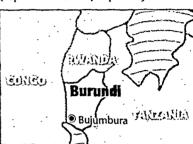
E-mail: emburnd@bol.net.in Consulate: Mumbai:Tel:23643093, Fax

E-mail:bhojwani@pn2.vsnl.net.in

28. Burundi

23645796.

(Republic of Burundi)-Republikay' Ubu-rund



Capital: Bujumbura; Other Large Cities Kitega; Area: 27,834 sq.km; Populatior 8,090,068; Languages: French and Kirund Religions: Christian-67%, indigenous belief: 23%, Muslim-10%, Protestant-5%; Literac; 51.6%; Life Expectancy: 50.81; Currency Burundi Franc (\$1=980.00); p.c.i: \$ 700 Date of Independence: 1# July, 1962.

Government Type: Republic; Presiden Pierre Nkurunziza.

History: The Republic of Burundi is a sma state in east central Africa. Burundi attaine independence on July 1, 1962. Prior to inde pendence, it formed part of the Belgian-ac ministered UN Trust Territory of Rwanda Urundi.

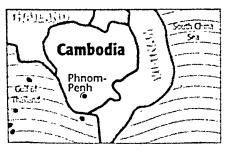
The population consists of Hutu or Bahut tribesmen (85%), Tutsi or Watutsi peopl and Twa or Batwa pygmies. One of Africa' poorest and most densely populated state: and scene of one of the continent's wor tribal wars. An unsuccessful Hutu rebellio in 1972-73 left 10,000 Tutsi and 150,00 Hutu dead. In the 1980s, a Tutsi-dominate regime pledged itself to ethnic reconciliation in the first democratic presidential election.

in June, 1993, a Hutu was elected. President Cyprien Ntarya-mira, along with Rwandan counterpart, was assassinated in April, 1994. Amnesty International puts the number killed in ethnic violence at over 100,000. Another 700,000 fled to neighbouring countries. In July, 1996, in a coup by the Tutsi-dominated army, Maj. Pierre Buyoya, the minority Tutsi strongman, seized power from President Sylvestre. Ethnic strife continued. In Apr. 2003, a Hutu president D. Ndayizeye assumed power fighting continues.

Economy: Burundi is a landlocked, resource-poor country with an underdeveloped manufacturing sector. The economy is predominantly agricultural with 90% of the population dependent on subsistence agriculture. Economic growth depends on coffee and tea exports, which account for 90% of foreign exchange earnings.

29. Cambodia

(Kingdom of Cambodia) Preah Reach Ana Pak Kampuchea



Capital: Phnom-Penh; Other Large Cities: Battambaug, Kampong Chan; Area: 181,035 sq km; Population: 13,881,427; Languages: Khmer, French; Religions: Theravada Buddhist-95%, others-5%; Literacy: 73.6%; Life Expectancy: 59.29; Currency: (\$1=4055.00); p.c.i: \$ 2,200; Date of Independence: 9" November, 1953.

Government Type: Constitutional Mon-

archy; Head of State: King Norodom Sihamoni; PM: Hun Sen.

History: Situated on the Indo-China Peninsula in south-east Asia, the People's Republic of Kampuchea changed its name to the original one Cambodia in May, 1989. For some time-between Oct. 1970 and May 1975 - the country was also known as Khmer Republic.

In May, 1993, the country held multi-party elections. An interim government, was set up by three parties, ending the 14-year reign of the Vietnamese-installed administration. In Sept., 1993, a new constitution was signed, restoring Prince Sihanouk as King of Cambodia. Khmer Rouge was outlawed in July, 1994. They in turn, formed a provisional government.

In July 1997, second PM Hun Sen took control of Phnom Penh and became the supreme leader of the country. His rival, first PM Norodom Ranariddh, fled the country. The royalist Funcinpec party of Ranariddh challenged the new first PM Ung Huot's election. Ranariddh was sentenced in absentia in March to 5 years' R.I. by a military court. On Apr. 15, Pol Pot died. Hun Sen emerged the winner in the election of July, '98

Economy: Cambodia is an under-developed country with 50 per cent of its land covered by virgin forests. Chief crops: Rice (occupies 90 per cent of arable land), maize, beans, black pepper, rubber. Cattle rearing and fishing are fairly well-developed. Tonle Sap is one of the world's richest sources of freshwater fish, and most farmers are fisher-The forests are rich in valuable men, too timber. Minerals Iron, copper, manganese and gold. Industry. Rice milling, wood and rubber

Angkor Wat, built from 9th to 12th century, the largest cultural monument in the world, is the major tourist attraction.

Recent Events: In February 2005, 05504 tion leader Sam Rainsy and two

27. Burkina Faso



Capital: Ouagadougou; Other Large Cities:

Koudougou, Banfora; Area: 274,200 sq km; Population: 13,902,972; Languages: French and Sudanic tribal languages; Religions: Tribal

beliefs-40%, Muslim-50%, Christian-10%: Literacy: 26.6%; Life Expectancy: 48.85; Currency: CFA Franc (\$1=518.98); p.c.i: \$1,300

; Date of Independence: 5th August, 1960. Government Type: Parliamentary Republic: Head of State: Blaise Compaore.

History: The Republic of Burkina Faso in West Africa is a landlocked state surrounded by Mali, Niger, Benin, Toqo, Ghana and Cote

D' Ivoire. Formerly a province of French West Africa called Upper Volta, the country gained full independence in 1960. Name changed to

Economy: It is almost exclusively an agricultural country with 80 per cent of the population dependent on agriculture. Livestock raising is highly developed. Principal crops are sorghum, millet, yams, cotton, rice, pea-

Burkina Faso in 1984.

nuts and karite. Industry is limited to local handicrafts and processed agricultural products. The country is heavily dependent on foreign aid. Some 2 million of its citizens live in nearby countries, most of them in Cote D' Ivoire and Ghana. Life expectancy: male 45,

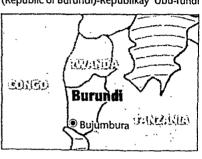
female 47. Mission in India: Embassy of Burkina Faso G-5, Anand Niketan, New Delhi-110 021. Tel:?24671678, 24671679; Fax: 24671745.

F-mail: emburnd@hol.net in Consulate: Mumbai:Tel:23643093, Fax: 23645796.

E-mail:bhojwani@pn2.vsnl.net.in

28. Burundi

(Republic of Burundi)-Republikay' Ubu-rundi



Capital: Bujumbura; Other Large Cities: Kitega; Area: 27,834 sq.km; Population: 8,090,068; Languages: French and Kirundi; Religions: Christian-67%, indigenous beliefs-23%, Muslim-10%, Protestant-5%; Literacy: 51.6%; Life Expectancy: 50.81; Currency: Burundi Franc (\$1=980.00); p.c.i: \$ 700;

Date of Independence: 1st July, 1962. Government Type: Republic; President: Pierre Nkurunziza,

History: The Republic of Burundi is a small state in east central Africa. Burundi attained independence on July 1, 1962. Prior to independence, it formed part of the Belgian-administered UN Trust Territory of Rwanda-Urundi.

The population consists of Hutu or Bahutu tribesmen (85%), Tutsi or Watutsi people and Twa or Batwa pygmies. One of Africa's poorest and most densely populated states, and scene of one of the continent's worst tribal wars. An unsuccessful Hutu rebellion in 1972-73 left 10,000 Tutsi and 150,000 Hutu dead. In the 1980s, a Tutsi-dominated

regime pledged itself to ethnic reconciliation.

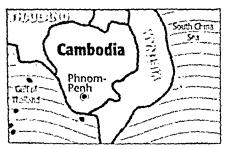
In the first da-

in June, 1993, a Hutu was elected. President Cyprien Ntarya-mira, along with Rwandan counterpart, was assassinated in April, 1994. Amnesty International puts the number killed in ethnic violence at over 100,000. Another 700,000 fled to neighbouring countries. In July, 1996, in a coup by the Tutsi-dominated army, Maj. Pierre Buyoya, the minority Tutsi strongman, seized power from President Sylvestre. Ethnic strife continued, In Apr. 2003, a Hutu president D. Ndayizeye assumed power fighting continues.

Economy: Burundi is a landlocked, resource-poor country with an underdeveloped manufacturing sector. The economy is predominantly agricultural with 90% of the population dependent on subsistence agriculture. Economic growth depends on coffee and tea exports, which account for 90% of foreign exchange earnings.

29. Cambodia

(Kingdom of Cambodia) Preah Reach Ana Pak Kampuchea



Capital: Phnom-Penh; Other Large Cities: Battambaug, Kampong Chan; Area: 181,035 sq km; Population: 13,881,427; Languages: Khmer, French; Religions: Theravada Buddhist-95%, others-5%; Literacy: 73.6%; Life Expectancy: 59.29; Currency: Riel (\$1=40\$5.00); p.c.l; \$ 2,200; Date of Independence: 9th November, 1953.

Government Type: Constitutional Mon-

archy; Head of State: King Norodom Sihamoni; PM: Hun Sen.

History: Situated on the Indo-China Peninsula in south-east Asia, the People's Republic of Kampuchea changed its name to the original one Cambodia in May, 1989. For some time-between Oct. 1970 and May 1975 - the country was also known as Khmer Republic.

In May, 1993, the country held multi-party elections. An interim government, was set up by three parties, ending the 14-year reign of the Vietnamese-installed administration. In Sept., 1993, a new constitution was signed. restoring Prince Sihanouk as King of Cambodia. Khmer Rouge was outlawed in July, 1994. They in turn, formed a provisional government.

In July 1997, second PM Hun Sen took control of Phnom Penh and became the supreme leader of the country. His rival, first PM Norodom Ranariddh, fled the country. The royalist Funcinpec party of Ranariddh challenged the new first PM Ung Huot's election. Ranariddh was sentenced in absentia in March to 5 years' R.I. by a military court. On Apr. 15, Pol Pot died. Hun Sen emerged the winner in the election of July, '98.

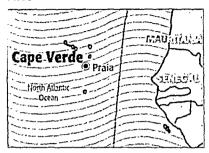
Economy: Cambodia is an under-devel oped country with 50 per cent of its land covered by virgin forests. Chief crops. Rice (occupies 90 per cent of arable land) maile beans, black pepper, rubber. Cattle rearing and fishing are fairly well-developed. Toolie Sap is one of the world's richest societies? freshwater fish, and most tarmers in The forests are " " men, too timber Minerals from corpor and gold Industry Rice with a maximum rubber

Angkor Wat to Thomas and tury the largest collections and their world is the naix is

Recent News 11 35 365 there respect to a factor of a

32. Cape Verde

Republic of Cape Verde/Republica de Cabo Verde



Capital: Praia; Area: 4033 sq.km; Population: 420,979; Languages: Portuguese, Crioulo; Religions: Roman Catholic (infused with indigenous beliefs), Protestant (mostly Church of the Nazarene); Literacy: 76.6%; Life Expectancy: 70.73; Currency: Escudo (\$1=87.6); p.c.l:\$ 6,200; Date of Independence: 5th July, 1975.

Government Type: Republic; President: Pedro Pires; PM: Jose Maria Neves.

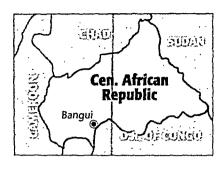
History: Cape Verde is an archipelago of 15 islands in the Atlantic, 600 km west of Dakar, Senegal. Volcanic in origin, the islands are divided into two groups: Barlavento (windward) and Sotavento (leeward). Most Cape Verdeans are descendants of the first Portuguese colonists who came in 1462 and the African slaves brought in soon after. The islands won independence on July 5,1975.

Economy: Repeated droughts and famines have made Cape Verde poorer. Chief crops are banana, coffee, coconuts, sugarcane, maize, beans. Fishing is important. Minerals: salt.

33. Cen. African Republic

Republique Centrafricaine

Capital: Bangui; Other Large Cities: Bambarí, Bouar; Area: 622,984 sq .km; Population: 4,303,356; Languages: French and Sangho;



Religions: Indigenous beliefs-35%, Protestant-25%, Roman Catholic-25%, Muslim-15%; Literacy: 51%; Life Expectancy: 43.54; Currency: CFA Franc (\$ 1=518.98); p.c.i: \$ 1,100; Date of Independence: 13th August, 1960.

Government Type: Republic; President: François Bozize; PM: Elie Dote.

History: The Central African Republic lies in the heart of equatorial Africa. It became self-governing in 1958, and fully independent in 1960, as a member state of the French Community. In 1966 Col. Jean Bedel Bokasa, Chief of Staff of the Army, ousted President David Dacko and seized control of the government

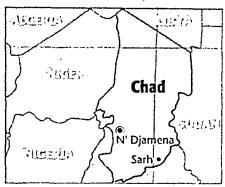
Bokasa was made President for life in 1972. In 1976, he set himself up an emperor, after the Napoleonic pattern. In 1979 a popular uprising drove him out. There was another coup in 1981. A civilian government was installed in 1993.

A government of national unity was formed in June, 1996, after an army mutiny of a month earlier was suppressed with the help of French troops. There was another mutiny in Jan. '97, which ended after French intervention.

Economy: Principal agricultural products are cotton, coffee, groundnuts and tobacco. Cotton leads in exports. Diamonds account for half of the country's export earnings. Uranium mining is becoming increasingly important. Industry: timber, textiles, light manufacturing.

34. Chad

(Republic of Chad) Republique du Tchad



Capital: N'Djamena; Other Large Cities: Sarh, Moundou; ; Area: 1,284,000 sq.km; Population: 9,944,201; Languages: French, Arabic and over 100 tribal languages; Religions: Muslim-51%, Christian-35%, Animist-7%, others-7%; Literacy: 47.5%; Life Expectancy: 47.52; Currency: CFA Franc (\$ 1=518.98); p.c.i: \$ 1,500; Date of Independence: 11th August, 1960.

Government Type: Republic; President: Idriss Deby; PM: Pascal Yoadimnadji.

History: The Republic of Chad, a land-locked country in North Central Africa, was a province of French Equatorial Africa. The country gets its name from Lake Chad, which lies on the western border with Niger and Nigeria. It became independent on August 11, 1960. Northern Muslim rebels have fought Southern Christian government and French troops since 1966. Idriss Deby took control in 1990.

Economy: The country's economy is entirely rural and based on agriculture and animal husbandry. Cotton and meat are the main exports. Cattle, sheep and camels are raised.

35. Chile

(Republic of Chile) Republica de Chile Capital: Santiago; Other Large Cities: Valparaiso, Antofagasta; Area: 756,626 sq.



km; Population: 16,134,219; Languages: Spanish; Religions: Roman Catholic-89%, Protestant-11%; Literacy: 96.2%; Life Expectancy: 76.77; Currency: Peso (\$ 1= 542.75); p.c.l: \$ 11,300; Date of Independence: 18th September, 1810.

Government Type: Republic; Head of State& Govt (President): Michelle Bachelet.

History: The Republic of Chile lies on the western seaboard of South America, occupying the strip of land between Peru and Bolivia in the north to Cape Horn in the south.

Originally a Spanish colony, Chile became independent in 1810. It is the first South American country to elect a Marxist Govt. (under Salvador Allende in 1970) which fell in a military coup in 1973. Human rights violations marked the rule of Augusto Pinochet, removed from office in 1989. Pinochet was arrested in London in Oct. '98, but returned to Chile in March, 2000. Put under house arrest, he was declared to be unfit to stand trial in July 2001.

Economy: Though wheat, other cereals, potatoes, beans etc. are cultivated, Chile has to import about one-third of its food. It is one of world's largest producers and a leading exporter of copper. There are significant deposits of nitrate, gold, silver, lithium, molybdenum and iron ore. Oil production provides about half the oil required by the country. Exports, marine products and fruits. The percent of Chile's trade is with Asian contries, 38% with EU, and the the Americas. Industries: Fist tiles, wood products.

Tierra del Fuego is the largest island in the archipelago of the same name at the southern tip of S. America. Part of the island is in

Chile, part in Argentina. Recent Events: In January, Supreme Court upheld indictment of Gen. Pinochet for nine kidnappings and one homicide during his dictatorship.

of Chile, 146, Jor Bagh, New Delhi-110003; Tel: 24617123, 24617165, 24617270;

Mission in India: Embassy of the Republic

Telefax: 91-11-24617102.

E-mail: embchile@vsnl.com

Indian Mission in Chile: Embassy of India, 871, Triana, Post Box No. 10433, Santigao,

Chile, Tel: 00-56-2-2352005, 2352633; Fax: 00-56-2-2359607.

E-mail:embindia@entelchile.net

36. China

Renmin Gonghe Guo Capital: Beijing (Peking); Other Large Cities:

(People's Republic of China) Zhonghua

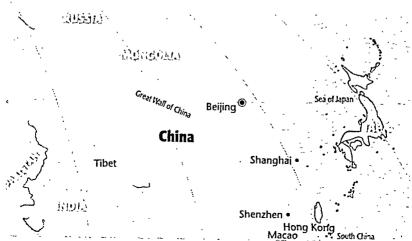
Shanghai, Canton, Shenzhen; Area: 9,561,000 sq.km; Population: 1,313,973,713: Languages: Chinese (Mandarin) and other

local languages: Religions: Officially Atheist, Buddhism, Taoism, Muslim, Christian; Literacy: 90.9%; Life Expectancy: 72.58; Currency: Renminbi (Yuan) (\$ 1=8.00); p.c.i: \$ 6,800; Date of Independence: 221 BC (unification under the Qin or Ch'in Dynasty); 1st January, 1912 (Qing Dynasty replaced by a Republic); 1st October 1949 (People's Republic established)

Government Type: Communist state; President: Hu lintao; PM: Wen liabao.

History: The most populous country in the world and the third largest in area, China is made up of 22 provinces, 5 autonomous regions and four municipalities. It occupies most of the habitable mainland of East Asia. Two-thirds of the territory is mountainous or desert; only one-tenth is cultivated. The eastern half of China is one of the world's bestwatered lands. Three great river systems (the Chang or Yangtze, Huang or Yellow and Xi) provide water for the farmlands.

One of the oldest countries in the world, China became a republic in 1911, Following internal conflicts after World War II involving the Kuomintang, Communists and other factions, China came under the domination of



Communist armies. The People's Republic of Crima was proclaimed in Peking on October 1, 1949, under Mad Tse-Tung. The Kugmin-tand dove moved to Tahvan, Dec. 8, 1949. Mad died in 1976 and Deng Xiaoping succeeded nim as the 'paramount leader' of China. Deno clied in 1997 and fiand Zemin dame to power.

On Oct. 25, 1971 China was admitted a member of the UNI, displacing Nationalist China (Tarwan).

Economy: China is essentially an admoultural country. The main crops are nce, tea, tobacco, sugarcane, jute, soya, groundnut and hemp. The main forest products are teak and ting oil. Among the principal industries are cotton and woollen mills, iron, leather and electrical equipments. The chief minerals are coal, manganese, iron ora, gold, copper, lead, zinc, silver, tungsten, mercury, antimony and tin. Petroleum industry is steadily growing.

In late 1978, the Chinese leadership began moving the economy from a Soviet-style centrally planned economy to a more market-oriented system. The result has been a quadrupling of GDP since 1978. In 2002, with its 1.28 billion people but a GDP of just \$ 4600 per capita, China stood as the second largest economy in the world after the US (measured on a purchasing power panty basis).

China is a nuclear power well advanced in space technology. It launched its first earth satellite in April, 1970.

Student uprising in 1989 for political reform and liberalisation was put down by the government, Tiananmen Square, outside the Great Hall of the People was the main scene of the demonstrations, It is estimated that 5000 people died and 10,000 were injured. China released its top dissident leader Wand Dan in Acr. 98

China intends to downsize its three million-strong military to 2.5m. In July 199, China banned the quasi-religious sect Falur Cong-In early 199, the constitution was amended to as to boister private enterprise. The dovt.

follows a one-critic per family policy it fan gett zem population gmwth ox 2016

Tibet: One of the five suforcomous regions, That is a thirtly populated region of high pileteaus and massare mountains. Capital is Grasa. and population about 2.44m., of whom 500,000 am Chinese, China installed a Communist cast in 1953, reliand the theorytic Lamaist Buddhist rule. There was an upmand in 1959, it was crushed, and Buddhism was almost totally suppressed. The Dalai Lama and 100,000 Tibetans fled to India

Recent Events: Work on the structure of the Three Contes Dam, the world's largest hydropower project, was completed in Mail 2006. A new railway, has been commed linkind Tibet to China, The T100km Ginghai-Tbet railway has been built through some of the most difficult terrain on earth, and rises at one point to S072 m above seallere!

Mission in India: Embassy of the People's Republic of China, 50-D. Shant, eath, Chanakvapun, New Delhi-110021, Tel: 25881249; Fax:26882024.

E-mail:chinaemb_in@mfa.gov ch

Indian Mission in China: Embassy of India, T, Ritan Dong, Lu, Beiling 190606, China Tel: CC-86-10-653219C8, Fix: CC-86-10-65324684.

E-mailundembich@oublic3 brainet.cr

Hong Kong

Hong Kong became a Special Administrative Region of China on July 1, 197 when the colony was handed over by Britain, which ruled it for 156 years.

Capital: Victoria: Area: 1077 sid km; Population: 6,940,432; Languages: English and Cartonese Religiona Confucarion and Buddright: Literack 93.5% Currency, Hong Kana Dollar (\$1=7.76) p.c.): \$ 12,900; Cate of Independence: Special Administration redion of China.

Covernment Types Limited Comprotect Chief Executives Danaid Trans

Lying along the south east coast of China, at the mouth of the Canton river, Hong Kong comprises Hong Kong island, Kowloon Peninsula, the New Territories and over 230 small islands. Hong Kong became a British colony in 1843. The New Territories were acquired by Britain in 1898 by lease for 99 years. By an agreement reached in 1984, China recovered sovereignty over Hong Kong in July 1997.

The population is almost entirely Chinese with a sprinkling of other nationalities. It is one of the world's greatest transhipment ports.

Indian Mission in Hong Kong: Consulate General of India, 16-D United Centre, 95, Queensway, Hong Kong. Tel: 00-852-25284028, 25272275; Fax: 00-852-28664124.

E-mail:cg@indianconsulate.org.uk/ consular@indianconsulate.org.hk

Web: www.indianconsulate.org.hk

Macao

Capital: Macao; Area: 15.5 sq.km; Population: 453,125; Languages: Portuguese and Cantonese; Religions: Confucianism; Literacy: 94.5%; Currency: Pataca (\$1 = 7.99); p.c.l: \$ 22,000.

Chief Executive: (Hau-wah) Edmund Ho.

Macao or Macau is a former Portuguese territory in South China, at the mouth of the Canton river. The territory consists of the Macao peninsula and the adjoining islands of Taipa and Coloane. Portugal granted it broad autonomy in 1976. As per the agreement between Portugal and China, Macao reverted to China on Dec. 20, 1999. China has permitted Macao to continue as an independent territory mainly because of the big entrepot trade it commands. Macao is a free market for gold and an infamous centre of smuggling and gambling. China has pledged to Portugal that it will implement the 'one country two systems' principle in Macao.

The population is almost entirely Chinese. Industry, once restricted to matches and fireworks, now includes plastics, textiles, cameras, binoculars and such other consumer items. Cultivation is sparse. Only rice and vegetables are grown. Macao has an important fishing industry.

37. Colombia

(Republic of Colombia) Republica de Colombia



Capital: Bogota; Other Large Cities: Medellin, Cartagena; Area: 1,139,000 sq.km; Population: 43,593,035; Languages: Spanish; Religions: Roman Catholic-90%; Literacy: 92.5%; Life Expectancy: 71.99; Currency: Peso (\$1=2,562); p.c.i: \$7,900; Date of Independence: 20th July, 1810.

Government Type: Republic; Head of State & Govt (President): Alvaro Uribe Velez.

Colombia, the only nation named after Christopher COLUMBUS, situated in the north west of South America, extends up to the Isthmus of Panama. It is the only South American country that borders on both the Atlantic and Pacific oceans.

History: Colombia was discovered by Alonso de Ojeda in 1499. It was once a part of the South American Spanish Empire. In 1819, Simon Bolivar, the first President, broke the hold of Spain. Bolivar united New Granada, as it was called, with Venezuela and Ecuador in the Greater Colombia Confedera-

tion in 1819. Venezuela and Ecuador broke away in 1929-30, and Panama withdrew in 1903.

The country is caught in the grip of a vicious guerrilla war that has claimed 40,000 lives in the past decade. The two main Leftwing guerilla groups are the Revolutionary Armed Forces of Colombia (FARC), and the smaller National Liberation Army.

Colombia is plagued by violence, mainly resulting from drug trafficking and govt's control measures. In recent years, the country has recorded the highest incidence of homicides per capita in the world.

Economy: Colombia is the largest producer and exporter of mild coffee. Other products are bananas, fresh flowers, cotton fibre, sugar, rice, tobacco, maize and wheat. The country is the world's leading producer of emeralds (50% world output) and is a substantial producer of platinum and gold; it holds the largest coal reserves in Latin America, rich nickel deposits and natural gas fields.

Industries include textiles, cement, motor vehicles, beverages, food products, chemicals and non-metallic minerals.

Colombia has 36 universities. The oldestthe Javeriana Pontifical Catholic University was founded in 1622, and the National University in 1868. Gabriel Garcia Marquez, the internationally renowned writer, is Colombia's most famous son.

Recent Events: In February, 2006 Colombia and the US agreed on a free trade deal. In March, parties loyal to President Uribe won an overwhelming victory in parliamentary elections. In May, President Uribe won a second term in office.

Mission In India: Embassy of Colombia, 4/ 21, Shanti Niketan, New Delhi-110 021; Tel:26872771,26110773, 26110824; Fax: 26112486

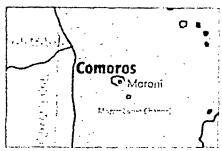
E-mail:emcolin@bol.net.in

Indian Mission In Colombia: Embassy of India, Cerrera 7, No.71-21, Officina 1001,

Edificio Bancafe, Bogota DC, Colombia, Tel: 00-57-1-3174865, Fax:00-57-1-3174976. E-mail:indembog@cable.net.co

38. The Comoros

(Federal Islamic Republic of the Comoros) Jumhuriyat al-Qumer al-Itthadiyah al-Islamiyah



Capital: Moroni; Other Large Cities: Fomboni, Mutsamudu; Area: 1862 sq.km; Population: 690,948; Languages: Arabic and Comoran; Religions: Islam-98%, Roman Catholic-2%; Literacy: 56.5%; Life Expectancy: 62.33; Currency: Comorian Franc (\$ 1=389.23); p.c.i: \$1,600; Date of Independence: 6th July, 1975.

Government Type: Independent Republic; Head of State: Azali Assoumani: PM: Hamada Madi.

History: The Comoro Islands lie at the northern end of the Mozambique Channel, between Africa and Madagascar. The archipelago consists of 3 islands-Grande-Comoroe, Anjouan and Moheli-and a number of islets and coral reefs. With neighbouring Mayotte, they were attached to Madagascar from 1914 to 1947, when the four islands became a French Overseas Territory. In a 1974 referendum, the three islands voted for independence while Mayotte voted to remain French. The main islands are volcanic and Grande-Comoroe, the largest island nated by Mount Karthala (2361 m volcano. The islands are densely!

In Aug., '97, separatists from Anjouan seeking a return to French rule declared independence from the Comoros federation at a rally in Mutsamudu, the main town. They wanted a status similar to that of Mayotte, which now is a French overseas territory. In Feb. '98, voters in the Indian Ocean island of Nzwani voted for a complete breach from Comoros.

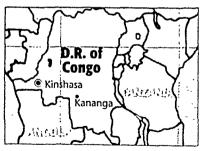
The population is a mixture of various strains—Arabs, Africans, Malagasys, Persians, Indians, Indonesians and Europeans. African and Arab influences are strongest. A purely European population of around 1500 completes the scene. Grande-Comoroe is the most populous island and has as capital and principal town, Moroni.

Economy: Agriculture is the mainstay of the economy. (Vanilla, copra, perfume plants, fruits). Industry: Perfumes.

Mission in India: Hon.Consulate, B-50 Gulmohar Park, New Delhi. Tel:26791100; Fax: 26791002.

39. Congo, D.R. of (Formerly Zaire)

Democratic Republic of the Congo



Capital: Kinshasa; Other Large Cities: Lubumbashi, Kananga; Area: 2,344,885 sq km; Population: 62,660,551; Languages: French, Kiswahili, Lingala and other African languages; Religions: Roman Catholic-50%, Protestant-20%, Kimbanguist-10%, Muslim-10%, others-10%; Literacy: 65.5%; Life Expectancy: 51.46; Currency: Congolese Franc (\$1 = 447.60); p.c.i: \$ 700; Date of Independence: 30th June, 1960.

Government Type: Dictatorship; President: Gen. Joseph Kabila.

History: Originally a Belgian colony (Belgian Congo), Zaire, in west central Africa, became independent on June 30, 1960. Until Oct. 1971, Zaire was known as the Democratic Republic of Congo or Congo (Kinshasa). In 1971, the name of River Congo was changed to River Zaire.

Economic difficulties plagued Zaire in the 1980s and the situation worsened in the 1990s. President Mobutu announced an end to a 20-year ban on multi-party politics in 1990. In 1991 he agreed that the political opposition should form a government. During 1994, Zaire was flooded with Hutu refugees (a million) from the ethnic bloodshed in Rwanda.

The year 1997 saw the fall of President Mobutu Sese Seko (in power since 1965), after a 7-month civil war. In May, Mobutu left Kinshasa and the next day rebel leader Laurent Kabila declared himself head of state. Zaire was renamed Democratic Republic of Congo. Lawrent Kabila was assassinated in January 2001. His son Joseph Kabila became the new leader. Two rebel leaders were sworn in VPs (July 03) • France sent a UN-backed peacekeeping force to eastern Congo to quelfighting between ethnic militias.

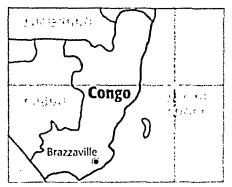
Economy: The major assets of Congo are her copper mines and the diamond deposits. The country is rich in other minerals like cobalt (60% of world reserves), cadmium, manganese, zinc and uranium. The forests abound in high class wood like mahogany, ebony and teak. Principal agricultural products are coffee, palm oil, rubber, sugarcane, maize, rice, cassava and plantains. Main manufactures are tobacco, textiles, wood products, metal items, building materials, foodstuffs and beverages.

Mission In India: Embassy of the Democratic Republic of Congo, D-6, Anand Niketan, New Delhi-110 021. Tel: 51660976.

E-mail: CongoEmbassy@yahoo.co.in

40. Congo

(Republic of the Congo) Republique du Congo



Capital: Brazzaville; Other Large Cities: Pointe-Noire, Loubomo; Area: 342,000 sq. km; Population: 3,702,314; Languages: French , Lingala, Congo, Teke; Religions: Christian-50%, Animist-48%, Muslim-2%; Literacy: 83.8%; Life Expectancy: 52.8; Currency: CFA Franc (\$ 1=518.98); p.c.i: \$ 750; Date of Independence: 15th August 1960.

Government Type: Republic; President: Gen. Denis Sassou Nguesso.

History: Formerly part of the French Equatorial Africa, the Republic of Congo in West Central Africa became autonomous within the French Community in 1958 and fully independent in Aug. 1960. In 1963, the country adopted a Marxist-Leninist stance. In 1969, a new constitution was promulgated. Marxism was renounced in 1990. A democratically elected government came into office in 1992.

In June 97, fighting broke out between armed forces backing President Lissouba and his once marxist predecessor Denis Sassou Nguesso, Troops loyal to the latter took control of Brazaville in October.

Economy: Agriculture: Palm oil and kernels, cassava, cocoa, coffee, tobacco. Industry: Processed foods, textiles, cement, metal industries. Main exports: timber, diamonds, palm oil, crude petroleum, sugar and groundnuts.

Mission In India: Embassy of the Republic of Congo stationed at Beijing.

41. Costa Rica

(Republic of Costa Rica) Republica de Costa Rica



Capital: San Jose; Other Large Cities: Alajuela, Cartago, Area: 51,100 sq.km; Population: 4,075,261; Languages: Spanish, Religions: Roman Catholic-76.3%, Evangelical-13.7%, Jehovah's Witnesses-1.3%, Other Protestant-0.7%, others-4.8%, None-3.2%; Literacy: 96%; Life Expectancy: 77.02; Currency: Co-Ion (\$1=512.195); p.c.l: \$ 11,100; Date of Independence: 15th September 1821.

Government Type: Democratic Republic; Head of State & Govt (President): Oscar Arias Sanchez.

The Republic of Costa Rica (the Rich Coast) is a Central American state. It lies between Nicaragua and Panama

History: For nearly three centuries Costa Rica formed part of the Spanish American dominion. In 1821 it became independent.

Economy: The country is mainly across tural. Coffee is the most important man accounting for about half the crops include banana, sugar

In Aug., '97, separatists from Anjouan seeking a return to French rule declared independence from the Comoros federation at a rally in Mutsamudu, the main town. They wanted a status similar to that of Mayotte, which now is a French overseas territory. In Feb. '98, voters in the Indian Ocean island of Nzwani voted for a complete breach from Comoros.

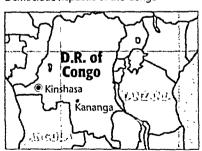
The population is a mixture of various strains—Arabs, Africans, Malagasys, Persians, Indians, Indonesians and Europeans. African and Arab influences are strongest. A purely European population of around 1500 completes the scene. Grande-Comoroe is the most populous island and has as capital and principal town, Moroni.

Economy: Agriculture is the mainstay of the economy. (Vanilla, copra, perfume plants, fruits). Industry: Perfumes.

Mission in India: Hon.Consulate, B-50 Gulmohar Park, New Delhi. Tel:26791100; Fax: 26791002.

39. Congo, D.R. of (Formerly Zaire)

Democratic Republic of the Congo



Capital: Kinshasa; Other Large Cities: Lubumbashi, Kananga; Area: 2,344,885 sq km; Population: 62,660,551; Languages: French, Kiswahili, Lingala and other African languages; Religions: Roman Catholic-50%, Protestant-20%, Kimbanguist-10%, Muslim-10%, others-10%; Literacy: 65.5%; Life Expectancy: 51.46; Currency: Congolese Franc (\$1= 447.60); p.c.i: \$ 700; Date of Independence: 30th June, 1960.

Government Type: Dictatorship; President: Gen. Joseph Kabila.

History: Originally a Belgian colony (Belgian Congo), Zaire, in west central Africa, became independent on June 30, 1960. Until Oct. 1971, Zaire was known as the Democratic Republic of Congo or Congo (Kinshasa). In 1971, the name of River Congo was changed to River Zaire.

Economic difficulties plagued Zaire in the 1980s and the situation worsened in the 1990s. President Mobutu announced an end to a 20-year ban on multi-party politics in 1990. In 1991 he agreed that the political opposition should form a government. During 1994, Zaire was flooded with Hutu refugees (a million) from the ethnic bloodshed in Rwanda.

The year 1997 saw the fall of President Mobutu Sese Seko (in power since 1965), after a 7-month civil war. In May, Mobutu left Kinshasa and the next day rebel leader Laurent Kabila declared himself head of state. Zaire was renamed Democratic Republic of Congo. Lawrent Kabila was assassinated in January 2001. His son Joseph Kabila became the new leader. Two rebel leaders were swom in VPs (July 03) • France sent a UN-backed peacekeeping force to eastern Congo to quell fighting between ethnic militias.

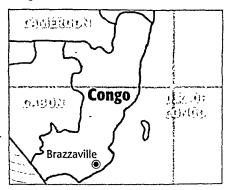
Economy: The major assets of Congo are her copper mines and the diamond deposits. The country is rich in other minerals like cobalt (60% of world reserves), cadmium, manganese, zinc and uranium. The forests abound in high class wood like mahogany, ebony and teak. Principal agricultural products are coffee, palm oil, rubber, sugarcane, maize, rice, cassava and plantains. Main manufactures are tobacco, textiles, wood products, metal items, building materials, foodstuffs and beverages.

Mission in India: Embassy of the Democratic Republic of Congo, D-6, Anand Niketan, New Delhi-110 021. Tel: 51660976.

E-mail: CongoEmbassy@yahoo.co.in

40. Congo

(Republic of the Congo) Republique du Congo



Capital: Brazzaville; Other Large Cities: Pointe-Noire, Loubomo; Area: 342,000 sq km; Population: 3,702,314; Languages: French , Lingala, Congo, Teke; Religions: Christian-50%, Animist-48%, Muslim-2%; Literacy: 83.8%; Life Expectancy: 52.8; Currency: CFA Franc (\$ 1=518.98); p.c.i: \$ 750; Date of Independence: 15th August 1960.

Government Type: Republic; President: Gen. Denis Sassou Nguesso.

History: Formerly part of the French Equatorial Africa, the Republic of Congo in West Central Africa became autonomous within the French Community in 1958 and fully independent in Aug. 1960. In 1963, the country adopted a Marxist-Leninist stance. In 1969, a new constitution was promulgated. Marxism was renounced in 1990. A democratically elected government came into office in 1992.

In June 97, fighting broke out between armed forces backing President Lissouba and his once marxist predecessor Denis Sassou Nguesso. Troops loyal to the latter took control of Brazaville in October.

Economy: Agriculture: Palm oil and kemels, cassava, cocoa, coffee, tobacco. Industry: Processed foods, textiles, cement, metal industries. Main exports: timber, diamonds, palm oil, crude petroleum, sugar and groundnuts.

Mission in India: Embassy of the Republic of Congo stationed at Beljing.

41. Costa Rica

(Republic of Costa Rica) Republica de Costa Rica



Capital: San Jose; Other Large Cities: Alajuela, Cartago; Area: 51,100 sq.km; Population: 4,075,261; Languages: Spanish; Religions: Roman Catholic-76.3%, Evangelical-13.7%, Jehovah's Witnesses-1.3%, Other Protestant-0.7%, others-4.8%, None-3.2%; Literacy: 96%; Life Expectancy: 77.02; Currency: Colon (\$1=512.195); p.c.i: \$ 11,100; Date of Independence: 15th September 1821.

Government Type: Democratic Republic; Head of State & Govt (President); Oscar Arias Sanchez.

The Republic of Costa Rica (the Rich Cost) is a Central American state. It lies between Nicaragua and Panama.

History: For nearly three certific Cons Rica formed part of the Spanish amercan dominion. In 1821 it became incertendent.

Economy: The county tural. Coffee is the most income and the state of the sta accounting for about crops include b

Bananas, cocoa, cattle and, recently, sugar are exported. In recent years there has been a shift towards high-tech exports like computer chips and services. Now Costa Rica is the largest exporter of technology goods per capita in Latin America. After abolishing its army nearly half a century ago, the country has pumped large sums of money into education, creating a highly skilled workforce that reflects a population with a 95% literacy rate.

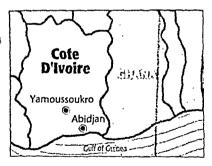
Industry: Pharmaceuticals, furniture, aluminium, textiles, tourism. People enjoy a relatively high standard of living. 93% have electricity. Silicon processors have brought prosperity to Costa Rica in recent years.

Mission in India: Hon, Consulate General of costa Rica, D-388 Defence Colony, New Delhi-110 024. Tel:24625670; Fax: 23327231:

E-mail: bradynd@de12.vsnl.net.in

42. Cote D'Ivoire (Ivory Coast)

(Republique de la Cote d'Ivoire)



Capital: Yamoussoukro (official), Abidjan(de facto); Other Large Cities: Bouake; Area: 322,462 sq.km.; Population: 17,654,843; Languages: French and Tribal; Religions: Christian-20-30%, Muslim-35-40%, Indiqenous-25-40% (2001). The majority of foreigners (migratory workers) are Muslim-70% and Christian (20%); Literacy: 50.9%; Life Expectancy: 48.82; Currency: CFA Franc

(\$1=518.98); p.c.i: \$ 1,600; Date of Inde pendence: 7th August, 1960.

Government Type: Republic; President Laurent Gbagbo; PM: Charles Konan Banny

Cote D'Ivoire in Western Africa is borderec by Mali and Burkina Faso in the north, Ghana in the east, the Gulf of Guinea in the south and Liberia and Guinea in the west.

History: The Republic of Ivory Coast once an overseas territory of France, be came independent on August 7, 1960 From 1986, the French version of the name became the only correct title. There are about 60 ethnic groups, the principal be ing the Baule, the Bete and the Senufo General Robert Guei seized power in Dec 1999. There was a coup attempt in 2002 A peace agreement was signed in 2003, bu there was trouble again. A power-sharing plan was arrived at in Mar. 03, and ceasefire

signed in May. Economy: Agriculture, forestry and fishing employ 90 per cent of the population. Cote D'Ivoire is world's largest cocoa producer the third most important coffee producer and the most important African producer of tim ber. Sugar, cotton, bananas and pineapple: are other important crops. Industrialisation has developed rapidly since independence particularly food processing, textiles and sav mills. Important minerals: Diamonds and manganese.

Mission in India: Embassy of Cote D Ivoire stationed at Moscow.

Hon.Consulate, Punj House, M-13 Connaught Place, New Delhi-110 001. Tel 23415621.

E-mail: virendra@ punj.com

Indian Mission in Cote D'Ivoire (Ivon Coast): Embassy of India, Villa No. 105, rue L98, 7eme Tranche, Cocody/II Plateaux Angre, 06 B.P. 318, Abidjan 06, Cote d'Ivoire Tel: 00-225-22423769, 22427079; Fax: 00

E-mail:indemabj@africaonline.co.ci

22426649.

43. Croatia

(Republic of Croatia) Republika Hrvatska



Capital: Zagreb; Other Large Cities: Zagreb, Split; Area: 56,538 sq .km; Population: 4,494,749; Languages: Serbo-Croatian; Religions: Roman Catholic-87.8%, Orthodox-4.4%, Muslim-1.3%, Protestant-0.3%, others and unknown-6.2%; Literacy: 98.5%; Life Expectancy: 74.68; Currency: Kuna (\$1=5.7365); p.c.i: \$ 11,600; Date of Independence: 25th June, 1991.

Government Type: Parliamentray Democracy; President: Stipe Mesic; PM: Dr. Ivo Sanader.

History: Former Yugoslavia's second largest republic, Croatia in S.E. Europe, has an extensive Adriatic coastline.

Croats migrated to their present territory in the 6th century. Croatia was united with Hungary in 1091. In 1918, Croatia became a part of the new Kingdom of Serbs, Croats and Slovenes, which was renamed Yugoslavia in 1929. Croatia then became one of the six 'Socialist Republics' constituting the Yugoslav federation. On June 25, 1991, Croatia declared independence. Serbs rebelled, sparking a 7 month-long civil war. The Krajina and other predominantly Serb areas proclaimed the desire for union with Serbia. UN peacekeeping mission arrived at the beginning of 1992. European Community (EC) recognised Croatia on January 15, 1992. Fighting between ethnic Serbs and Croats continued. A

ceaselire with Serb rebels forming a self-declared republic of Krajina was agreed to in March, 1994. In Aug, '96, Croatia and Serbia agreed to resume normal diplomatic ties after years of hostility. Croatia joined NATO's extended family in May, 2000.

Ethnic breakdown: Croats-75%; Serbs-12%; others-13%.

Economy: Agricultural products: Wheat, maize, potatoes, olives, plums, livestock, timber. Industry: Textiles, chemicals, coal, lignite, cement, sugar, steel, plastics, textiles.

Croatia's spectacular Adriatic coastline has long been a major package-tourist attraction notably the ancient city of Dubrovnik, which took a severe battering from the Yugoslav army in 1991.

Nearly 70% of trade exchange between ex-Yugoslavia and India was with Croatia. Upto one-third of the Indian fleet for nearly 40 years was built in Croatian shipyards.

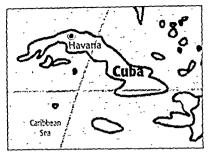
Mission in India: Embassy of the Republic of Croatia, A-15, West End, New Delhi-110 021. Tel: 26876871/72; Fax: 26876873

E-mail:croemnd@del1.vsnl.net.in

Indian Mission in Croatia: Embassy of India, Boskoviceva 7A 10000, Zagreb, Croatia. Tel: 00-385-1-4873239,4873240,4873241; Fax: 00-385-1-4817907.

E-mail:embassy.india@zg.tel.hr Web: www: ring.net/india

44. Cuba



Government Type: Communist State; Head of State & Govt (President): Dr.Fidel Castro Ruz: First Vice President: Raul Castro Ruz.

History: Cuba, the largest island in the Greater Antilles group is known as the Pearl of the Caribbean Sea. It is formed by two main islands - the island of Cuba and the isle of Youth- and more than 4000 keys and small isles. Its neighbours are USA, Mexico, Jamaica and Haiti.

Columbus discovered Cuba in 1492 and Spain ruled it for four centuries, In 1898 Cuba became an independent republic.

In 1959 Dr. Fidel Castro overthrew General Batista, the dictatorial president and took over power. Emigres made an unsuccessful invasion at the Bay of Pigs in Apr. 1961. In 1962 USA learned that USSR had brought nuclear missiles to Cuba. After a warning from 'resident J.F. Kennedy, the missiles were renoved. A communist constitution came into orce in 1976, and direct parliamentary elecons were permitted in 1992. In Jan. '98, Fiel Castro was re-elected president.

Economy: Cuba is the largest producer of gar in the world. Tobacco is the second gest crop. Cattle, poultry and fishing have come important in recent years. Cuba is n in nickel deposits. Copper, chromite and nganese are also found.

ndustry: Cement, sugar, food-processing. iles, tobacco. Sugar, nickel and fishing are top three export industries.

ecent Events: In February 2006, propa-

ganda war escalated in Havana as Preside Castro unveiled a monument which blocks the view of illuminated messages - some them about human rights - displayed on th US mission building. In July, President Castr underwent surgery and temperorily hande over control of the government to his brother Raul.

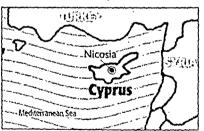
Mission in India: Embassy of the Republic of Cuba, E-1/9, Vasant Vihar, New Delhi-110 057. Tel: 26145459, 26143849, 26142515; Fax: 26143806.

E-mail: embcuind@del6.vsnl.net.in Indian Mission in Cuba: Embassy of India, Calle 21, No. 202, Esquina K, Vedado, La Havana, Cuba, Tel: 00-53-7-333777, 00-53-7-333169, 551700; Fax: 00-53-7-333287.

E-mail:eoihav@ceniai.inf.cu

45. Cyprus

(Republic of Cyprus) Kypriaki Dimokratia (Greek)/Kibiris Cumhuriyeti (Turkish)



Capital: Nicosia; Other Large Cities: Limassol, Larnanca; Area: 9,251 sq.km; Population: 784,301; Languages: Greek, Turkish and English; Religions: Greek Orothodox-78%, Muslim-18%, Maronite, Armenian Apostolic and others-4%; Literacy: 97.6%; Life Expectancy: 77.82; Currency: Cyprus Pound (\$1=0.466). p.c.i: \$ 21,600; Date of Independence: 16th August, 1960.

Government Type: Republic; President & PM: Tassos Papadopoulos.

History: The Republic of Cyprus lies in the North Eastern corner of the East Mediterranean basin, at the meeting point of three continents-Europe, Asia and Africa. Cyprus became independent in 1960. In 1974 it was invaded by Turkey and nearly 40% of its territory is still under Turkish occupation. A Turkish Cypriot Federated State was proclaimed in 1975 and in 1983 the state unilaterally proclaimed itself as the Turkish Republic of Northern Cyprus' (TRNC). In 1994, informal talks were held between the Presidents of Cyprus and TRNC but no progress was made. In Aug'96, violence jolted Cypriots on both sides. UN attempts to reunify Cyprus have not been successful.

Economy: The healthy climate and the natural beauty of the island make it an ideal place for tourists.

Cyprus is mainly an agricultural island. Main agricultural exports are: potatoes, grapes, carrots, fresh vegetables, citrus, milk. Main industrial exports are: readymade clothing, footwear, cement, travel goods, plastic products, water pumps, furniture, cosmetics, etc.

Recent Events: In May, 2006 Greek Cypriots backed ruling coalition in parliamentary elections, endorsing its opposition to reunification efforts. In July, UN-sponsored talks between President Papadopolous and Turkish Cypriot leader Mehmet Ali Talat agreed a series of confidence-building measures and contacts between the two communities.

Mission in India: High Commission of the Republic of Cyprus, 106, Jor Bagh, New Delhi-110 003. Tel: 24697503, 24697508; Fax: 2462 8828.

E-mail:cyprus@del3.vsnl.net.in Web: www.cyprushedelhi.com

Indian Mission in Cyprus: High Commission of India, 3, Indira Gandhi Street, Montparnasse Hill, P.O. Box 25544, Engomi, 2413 Nicosia, Cyprus. Tel: 00-357-2-351741, 351170; Fax:00-357-2-350402.

E-mail:india@spidernet.com.cy

46. Turkish Cyprus

Turkish Republic of Northern Cyprus



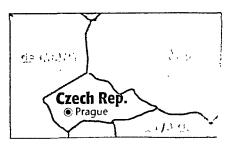
Capital: Nicosia; Area: 3355 sq.km; Population: 134,000 (1995 estimate); Languages: Turkish; Currency: Turkish Lira.

PM: Dervis Eroqlu.

The Turkish - controlled area of Northern Cyprus unilaterally declared independence in 1983. It has been named Turkish Republic of Northern Cyprus.' The Republic is not internationally recognised although it does have trade relation with some countries. There is a 50-strong Legislative Assembly.

47. Czech Republic

(Ceska Republika)



Capital: Prague Other Large Cities 3-Ostrava, Area 78,864 sq km; Pozulation 10,235 455 Languages: Czech; Fair man Cathor c-26 8%, Protestant-3 3% unspecified-8.8%, una and and and eracy 99% Life Expectance: The Koruna (\$1 = 22.55); pr of Independence: 1= jan

Government Type: Parliamentary Democracy; President: Vaclav Klaus; PM: Jiri Paroubek.

History: The Czech Republic and Slovakia became independent states on January 1, 1993, when the Czech and Slovak Federal

Republic (Czechoslovakia) was dissolved.

Czechoslovakia, a republic landlocked in

Central Europe, was composed of 64% Czechs and 31% Slovaks. The Czechoslovak Socialist Republic was established in January 1969 as a federal state of two nations of equal rights. In 1990, the country changed its name to the Czech and Slovak Federative Republic and dropped 'socialist' to symbolise its departure from the communist past. Disputes between the two regions over post-communist reforms turned the union bitter. In June, 1992 the 74-year old federation's Czech and

many, Poland, Slovakia and Austria. Czechs constitute 81.2%, Moravian and Silesians 13.7%, and Slovaks 3.1%. About 40% of people call themselves atheists. Czech Republic is a member of NATO.

Economy: Agriculture: Sugarbeet, wheat,

The Czech republic is bounded by Ger-

Slovak regions agreed to part.

potatoes, barley, maize, rye. Industry: Pig iron, crude steel, rolled steel products, cement, paper, sulphuric acid, synthetic fibres, sugar, beer, armaments, cars. Minerals: Coal, caolin, uranium.

Recent Events: In June 2006, general elections resulted in hung parliament.

Mission in India: Embassy of the Czech Republic, 50-M, Niti Marg, Chanakyapuri, New Delhi-110 021, Tel: 26110205, 26110318, 26110382, 26886218; Fax: 91-11-26886221.

E-mail:newdelhi@embassy.mzv.cz

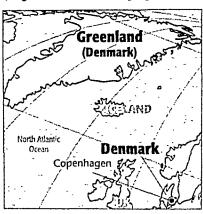
Web: mfa.cz/newdelhi

Indian Mission In Czech Republic: Embassy of India, Valdstejnska 6, Malastrana, 118 00 Prague-1, Czech Republic. Tel: 00-420-2-57533490-93; Fax:00-420-2-57533285, 57533378.

E-mail: indemprague@bohem.net.cz/ eiprague.comwing@nectraa.cz

48. Denmark

(Kingdom of Denmark) Kongeriget Danmark



Capital: Copenhagen; Other Large Cities: Odense, Alborg, Randers; Area: 43,074 sq km; Population: 5,450,661; Languages: Danish; Religions: Evangelical Lutheran-95%, Other Protestant and Roman Catholic-3%, Muslim-2%; Literacy: 99%; Life Expectancy: 77.79; Currency: Danish Krone (\$1=6.89); p.c.l: \$ 34,600; Date of Independence: Denmark was first organised as a unified state in the 10th century. In 1849, Denmark became a Constitutional Monarchy.

Government Type: Constitutional Monarchy; Head of State: Queen Margrethe II; PM: Anders Fogh Rasmussen.

History: Denmark, the smallest of the Scandinavian countries, is situated in northern Europe between the North Sea and the Baltic Sea. It comprises the peninsula of Jutland, the Islands of Zealand, Funen and Bornholm and 480 smaller islands. Greenland, the world's largest island, and the Faeroe Islands also form part of the Kingdom of Denmark. No one in Denmark is more than 52 km from the sea.

No wonder that the Danes were Vikings a few generations ago.

Denmark is a constitutional monarchy, the Queen and the Parliament (Folketing) jointly holding legislative powers.

Economy: About 62 per cent of the land is under cultivation. Denmark is one of the largest exporters of dairy products. Fishing forms an important occupation, Denmark is famous for its co-operative institutions. The first cooperative society was established in 1866. Shipbuilding, machinery of different types, textiles, furniture, iron and steel-ware account for a major portion of industry. Danish exports include stylish furniture, the hi-fi equipment of Bang & Olufsen, and the ubiquitous plastic Lego bricks. Legal marriage between persons of the same sex has been permitted since 1989. Denmark is close to being the leading donor among industrialised countries. Foreigners form less than 5% of the population.

Recent Events: In January-February, diplomatic storm grew over cartoon depictions of the prophet Muhammad, published by a Danish newspaper in 2005, which angered many Muslims.

Mission in India: Royal Danish Embassy, 11-Aurangzeb Rd., New Delhi-110011. Tel: 23010900, 23010002/04, 23010899 (Visa); Telefax: 23792019, 23792891.

E-mail:denmark@vsnl.com

Indian Mission in Denmark: Embassy of India, Vangehusvei 15, 2100 Copenhagen, Denmark. Tel: 00-45-39299201, 39182888, 39182995;Telefax: 00-45-39270218.

E-mail:indemb@euroconnect.dk

Outlying Territories of Denmark The Faeroe Islands

Capital: Torshavn; Area: 1399 sq.km; Population: 47,246.

PM: Joannes Eidesgaard.

The islands, in the North Atlantic, are mountainous and of volcanic origin. The islands have been represented in the Danish Parliament since 1851. They are self-governing in most matters.

Only 2% of the surface is cultivated. Grazing is the mainstay of the economy. Deep sea fishing is the most important sector.

Greenland

Capital: Nuuk (Godthaab); Area: 2,175,600 sq.km; Population: 56,361.

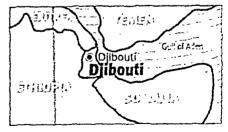
PM: Hans Enoksen. The world's largest island, Greenland lies between the North Atlantic and the Polar Sea. Over 80% of the area is ice-capped.

A Danish possession since 1380, Greenland became an integral part of the Danish Kingdom in 1953. In 1979 home rule was won by Greenland. With this, Greenlandic place names came into official use. Greenland is now Kalaallit Nunaat. The capital is Nuuk (old one Gothab). Full internal self-government was attained in Jan., 1981.

Fish is the main product of the island. Greenland is the world's only source of natural cryolite, important in making aluminium.

49. Djibouti

(Republic of Djibouti) Jumhouriyya Djibouti



Capital: Djibouti; Area: 21,783 sq.km; Population: 486,530; Languages: French, Arabic, Affar, Issa; Religions: Muslim-94%, Christian-6%; Literacy: 67.9%; Life Expectancy: 43.17; Currency: Djibouti Franc (\$1 =175); p.c.i: \$ 1,300; Date of Independ June, 1977.

Government Type: Republic; President: Ismail Omar Guelleh; PM: Mohamed Dileita Dileita

History: Djibouti, first known as French Somaliland and then as the French Territory of Afars and Issas, became independent on June 27, 1977 under the name of Djibouti. Lying between Ethiopia and Somalia and looking out on the Red Sea and the Gulf of Aden, the state is of extreme strategic importance.

Economy: The land is economically poor, being mostly volcanic desert with scattered plateaus and highlands. Agriculture is possible only in restricted areas with irrigation facilities. Goats, sheep and camels form the major wealth of the state. Salt is a major product. Huge salt deposits are found in the lakes of Alol and Assal. Trade is almost entirely based in the capital Djibouti. French aid as well as assistance from Arab countries is the mainstay of the economy. A 3 - year-long uprising by Afar rebels in the north belonging to the Front for the Restoration of Unity and Democracy (FRUD) ended with a peace accord in 1994. Ethiopia and Somalia have renounced their claims to Djibouti.

Mission in India: Embassy of the Republic of Djibouti stationed at Tokyo.

Mission in India: Honorary Consulate 3, Aurangzeb Lane, New Delhi-110011; Tel: 23011642/648; Telefax: 23011634.

E-mail: djibouti@spectranet.com

50. Dominica

(Commonwealth of Dominica)

Capital: Roseau; Area: 750 sq km; Population: 68,910; Languages: English and French Patois; Religions: Roman Catholic-77%, Protetant-15%, None-2%, others-6%; Literacy: 94%; Life Expectancy: 74.87; Currency: East Caribbean Dollar (\$1=2.70); p.c.i: \$5,500; Date of Independence: 3rd November, 1978



Government Type: Parliamentary Democ racy; President: Nicholas J.O. Liverpool; PN Roosvelt Skerrit.

History: Commonwealth of Dominica lie in the Lesser Antilles in Eastern Caribbear Once a British protectorate, it assumed th status of a British Associate State in 1967 an became fully independent on Nov. 3, 1978

The island is volcanic in origin and largel mountainous with numerous thermal spring: The population includes Negroes, Mulattoe: Carib Indians and Europeans.

Economy: Exports include bananas, cocoa copra and fruits. Tourism is an important in dustry.

The French franc, the pound sterling an East Caribbean dollar are legal tender.

Mission in India: Honorary Consulate of Commonwealth of Dominica, 283, Gulmoha Enclave, New Delhi-110011; Tel: 26862595 Fax: 26862595.

E-mail: shukla_dominica@hotmail.com

51. Dominican Republic

(Republica Dominica)

Capital: Santo Domingo; Other Large Cities La Vega, San Pedro; Area:48,442 sq km Population: 9,183,984; Languages: Spanish Religions: Roman Catholic-95%; Literacy 84.7%; Life Expectancy: 71.73; Currency Peso (\$1=32.87); p.c.i: \$7,000; Date of In dependence: 27th February, 1844.

Government Type: Republic; Head of State & Govt (President): Leonel Fernandez.

History: The Dominican Republic in the West Indies occupies the eastern two-third



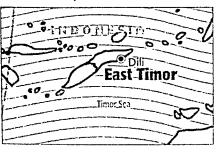
of Hispaniola, the second largest island of the Greater Antilles. Originally under Spain, the Dominican Republic became independent in 1844. The population is mainly composed of a mixed race of European (Spanish) and Afrian blood.

Economy: The state is predominantly agicultural. The most important crops are sugarcane, coffee, cocoa, tobacco and rice. Industry: Sugar refining, textiles, cement.

Hurricane George struck the country in Sept., 1998. In 2003, Amelia Vega, was crowned Miss Universe.

52. East Timor

(Democratic Republic of East Timor)



Capital: Dili; Area: 14,874 sq km; Population: 1,040,880; Languages: Tetum & Portuguese (official), English and Bahasa Indonesian (working languages); Religions: Catholic-90%, Muslim-4%, Protes-tant-3%, Hindu-0.5%, Buddhist, Animist; Literacy: 58.6% (2001); Life Expectancy: 66.26; Currency: 1 US dollar and Indonesian Rupiah(\$1=9010); p.c.i: \$ 400; Date of Independence: 20th May, 2002.

Government Type: Republic; President: Xanana Gusmao; PM: Mari Alkatiri.

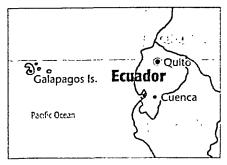
History: At midnight on May 19, 2002 East Timor became an independent country, after 450 years of Portuguese rule, 24 of brutal Indonesian occupation and two-and-a-half under the supervision of the UN. East Timor became a member of the United Nations in Sept. 2002.

Economy: East Timor's economy is dominated by agriculture with 75% of the country's population engaging in this activity. The major agricultural products are sweet potatoes and corn along with cash crops especially coffee. Farmers on the coastal plains also grow rice and plantation crops such as rubber, tobacco, and coconuts. In addition, the forests yield many kinds of timber, including sandal wood.

Most of the people of Timor are of mixed Malay, Polyneysia and Papuan descent. Members of a small ethnic community play an important role in the island's commerce.

53. Ecuador

(Republic of Ecuador) Republica del Ecuador



Capital: Quito; Other Large Cities: Guayaguil, Cuenca; Area: 283,561 sq km; Population: 13,547,510; Languages: Spanish, Quechuan and tribal dialects; Religions... Roman Catholic-95%; Literacy: 92 594 (Expectancy: 76.42; Currency: L

11= 1); p.c.i: \$ 4,300; Date of Independence: 24th May, 1822

Government Type: Republic; Head of State & Govt (President): Alfredo Palacio.

History: Ecuador lies on the west coast of iouth America. A part of the great Inca Emsire, Ecuador came under Spanish rule in 1533. It became independent in 1830.

Some 40% of the population is Amerindian. Guayaquil is the chief seaport and airport. The Galapagos islands (the home of huge tortoises) belong to Ecuador.

Economy: Ecuador is the world's largest exporter of bananas. Sugarcane, African balm, cacao, balsawood (world's largest exporter), rice and coffee are grown.

In Mar.-April '94, Ecuador and Peru fought

month-long war over a disputed border area. The Andean nations had fought wars in 1941 and 1981, over 78 km. of unmarked border amid a mountainous jungle. In Aug. '98, Peru charged Ecuadorean troops had en-

tered its territory.

Industry: Food processing, wood products, textiles, sugar. Silver ore is now the chief mineral product. There are large deposits of copper, gold and zinc. The production of petroleum is increasing. The so-called 'Panama'

uador.
In Feb. '99, the currency was devalued, following the worst economic crisis in 70 years. The economy had been ravaged by high interest rates, plunging oil prices and El Ninorelated storms and flooding.

hats made of Tequila straw are made in Ec-

Recent Events: In March 2006, nationwide protests flared over a proposed free trade agreement with the US.

54. Egypt

'Arab Republic of Egypt) Jumhuriyah Misr al-Arabiya

Capital: Cairo; Other Large Cities: Alexandria, Giza; Area: 997,677 sq.km; Population:



78,887,007; Languages: Arabic, English; Religions: Muslim(mostly Sunni)-90%, Coptic-9%, Other Christian-1%; Literacy: 57.7%; Life Expectancy: 71.291; Currency: Egyptian Pound (\$1=6.757); p.c.i: \$ 3,900; Date of Independence: 28th February, 1922.

Government Type: Republic; President: Hosni Mubarak; PM: Ahmed Nazif.

Egypt, traditionally known as the Gift of the Nile, occupies north east Africa.

History: Egypt has one of the oldest civilisations in the world, its recorded history going back to more than 5000 B.C. In 1922 Egypt became an independent monarchy and in 1953 a republic. Egypt merged with Syria in 1958 to form United Arab Republic; Syria broke away from the union in 1961.

The Suez Canal (173 km. long, connecting the Mediterranean with the Red Sea) was opened for navigation in 1869; nationalised 1956, closed 1967, reopened 1975. The Aswan High Dam (1971) provides irrigation for more than a million acres of land.

Economy: The main agricultural area is

Lower Egypt which covers the delta of the . Nile. Crops are cotton, onions, wheat, maize, millet, rice, sugarcane and fruits of various kinds. Industry: Textiles, chemicals, petrochemicals, food processing, cement. Exports are cotton, rice, mineral products, textiles, refrigerators, tyres, cement and electrical instruments.

The population boom is causing concern. Islamic militancy is a new threat in Egypt.

Recent Events: In February 2006, up to

1,000 people died-when a ferry carrying about 1,400 passengers from Saudi Arabia to Egypt sank in the Red Sea. In April, bomb attacks in the Red Sea resort of Dahab killed more than 20 people.

Mission in India: Embassy of the Arab Republic of Egypt, 1/50-M, Niti Marg, Chanakyapuri, New Delhi-110021. Tel: 26114096/97; Fax: 91-11-26885355.

Indian Mission in Egypt: Embassy of India, 5 Aziz Abaza Street, Zamalek, P.O. Box No.718, Cairo 11511, Egypt. Tel: 00-20-2-7360052, 7356053; Fax: 00-20-2-7364038.

E-mail:embassy@india-emb.org.eq

55. El Salvador

(Republic of El Salvador) Republica do El Salvador



Capital: San Salvador; Other Large Cities: Santa Ana, San Maguel; Area: 21,393 sq.km; Population: 6,822,378; Languages: Spanish; Religions: Roman Catholic-83%; Literacy: 80.2%; Life Expectancy: 71.49; Currency: Colon (\$1 =8.75); p.c.i: \$ 4,700; Date of Independence: 15th September, 1821.

Government Type: Republic; Head of State & Govt (President): Elias Antonio Saca Gonzalez.

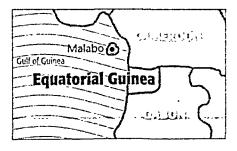
History: El Salvador in Central America became independent of Spain in 1821 and of the Central American Federation in 1839. It is the smallest and the most densely populated of the Central American States and the only one without an Atlantic coast line.

Economy: The country is predominantly agricultural. The principal crop is coffee which accounts for one half of exports. Other products are cotton, maize and sugar. Fisheries are being developed and figure prominently in the export list. Industry: Food & beverages, textiles, petroleum products.

A 12-year civil war that killed 75,000 people ended in 1992. In 1998 Hurricane Mitch killed 200 and made 30,000 homeless. In 2001, earthquakes and drought caused heavy damage.

56. Equatorial Guinea

(Republic of Equatorial Guinea) Republica de Guinea Ecuatorial



Capital: Malabo; Other Large Cities: Bata Area: 28,051 sq.km; Population: 540,109; Languages: Spanish, Fang, Bubi and pidgin English; Religions: Nominally Christian and predominantly Roman Catholic, pagan practices; Literacy: 85.7%; Life Expectancy: 49.54; Currency: CFA Franc (\$1 = 618.98); p.c.i: \$ 50,200; Date of Independence: 12th October, 1968.

Government Type: Republic; President: Brig-Gen. Teodoro Obiang Nguema Mbasogo; PM: Miguel Abia Biteo Borico.

History: Equatorial Guinea, formerly Spanish Guinea, comprises the islands of Ferrage Po (now Bioko), Corcisco, Grea Elobey, and Annoban and the

ritory of Rio Muni on the west coast of Africa. In 1975, almost all place names were changed by President Macias Nguema. The capital Santa Isabel thus became Malabo. Macias Nguema was ousted by his nephew, Mbasogo on Sept. 29, 1979. Constitutional rule was resumed in 1982.

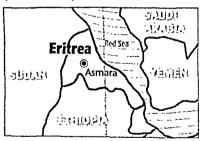
Economy: The island of Fernando Po is mostly mountainous. Coffee is cultivated upto 900 m and cocoa upto 600 m unit. There are also forests of ebony, mahogany and oak. Other products are cocoa, coffee, timber, palm oil and bananas. The country is heavily dependent on foreign aid.

Recent Events: There was coup attempt in Aug. '04. Mark Thatcher was arrested for alleged involvement.

Mission in India: Embassy of the Republic of Equatorial Guinea stationed at Beijing.

57. Eritrea

(State of Eritrea)



Capital: Asmara; Other Large Cities: The Ports of Massawa and Assab; Area: 117,600 sq. km; Population: 4,786,994; Languages: Tigrinya Arabic and several other local languages; Religions: Muslim, Coptic Christian, Roman Catholic, Protestant; Literacy: 58.6%; Life Expectancy: 59.03; Currency: Nafka (\$1=13.60); p.c.i: \$1,000; Date of Independence: 24th May, 1993.

Government Type: Transitional Government; Head of State & Govt (President): Issaias Afworki.

History: Eritrea, until recently the northern most province of Ethiopia, is situated on the African shore of the Red Sea. In 1890, it be came an Italian colony but Italy lost the colony to a British invasion force in 1941. After World War II, a U.N. resolution made Eritrea an au tonomous, self-governing region of Ethiopia apparently against the wishes of most o Eritrea's population. In 1962 Ethiopian em peror Haile Selassie formally annexed Eritrea Beginning in the mid-60's the province wa repeatedly torn by fighting between the Eritrean Liberation Front (ELF) and othe groups like Eritrean People's Liberation Fron (EPLF) advocating secession from Ethiopia, and the Ethiopian army. Africa's longest civil wa of 31 years ended in 1993 and on May 24 Eritrea became an independent nation-Africa 52nd. It was admitted to the Organisation c African Unity and the United Nations.

Border clashes between Eritrea and Ethiopi in May-June '98 led to the death of hundred: and an end to the very cordial relations betwee the two neighbours. Fighting resumed in 1995 In May, 2000, Eritrea announced withdraw; of troops from disputed border territory. I 2002, an international commission gave a ruing on the border but the tensions continuec

There are nine ethnic groups in Eritrea Massawa is the chief port. Only 5% of th land is under cultivation. Nearly a millio Eritreans lived abroad in 1995.

Economy: Agriculture: Sorghum, livestoc including camels and goats, Red Sea fishing Minerals: Gold, copper, potash, iron ore. Ex ports: Hides, salt, cement, gum arabic.

Mission in India: Hon. Consulate of Eritre: B-8/14, Vasant Vihar, New Delhi-110 057 Tel: 26140830; Telefax: 91-11-26141067.

58. Estonia

(Republic of Estonia)/Esti Vabariik Capital: Tallinn; Other Large Cities: Tartu Kohtla-Jarve; Area: 45,100 sq.km; Popula



tion: 1,324,333; Languages: Estonian; Religions: Evangelical Lutheran, Russian Orthodox, Estonian Orthodox, Baptist,. Methodist, Seventh-Day Adventist, Roman Catholic, Pentecostal, Word of Life, Jewish; Literacy: 99.8%; Life Expectancy: 72.04; Currency: Kroon (\$1 =12.379); p.c.i: \$ 16,700; Date of Independence: 20th August, 1991.

Government Type: Parliamentary Republic; Head of State: Amold Ruutel; PM: Andrus Ansip.

History: Estonia seceded from Soviet Union and attained independence in August, 1991, 50 years after the three Baltic states were annexed by Stalin's USSR. The first free elections in over 50 years were held in Sept. '92. Estonia is bounded west and north by the Baltic, east by Russia and south by Latvia.

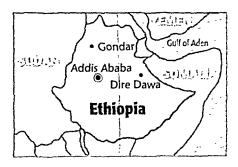
Economy: Agriculture and dairy farming are the major occupations. Some 22% of the territory is covered by forests, which provide fuel and raw material for Industires. Agricultural products: Grain, potatoes, vegetables, dairy products. Natural resources: Shale deposits, timber, peat, phosphorites. Industry: Ship-building, furniture, match & pulp, leather, garments, agricultural machinery, electric motors.

Recent Events: Estonia joined EU in 2004. Mission in India: Honorary Consulate General of the Republic of Estonia, A-11, Kailash . Colony, First Floor, New Delhi-110 048; Tel: 26449808; Fax: 256484575.

59. Ethiopia

(Federal Democratic Republic of Ethiopia)/Ye Etiyop'iya Hezbawi Dimokrasiyawi Republick

Capital: Addis Ababa; Other Large Cities: Gondar, Dire Dawa; Area: 1,221,900 sq.km; Population: 74,777,981; Languages: Amharic, Oromigna, Tigrigna and 60 other small languages; Religions: Muslim-45%-50 %, Ethiopian Orthodox-35%-40%, Animist 12%, others-3-8%; Literacy: 42.7%; Life Expectancy: 49.03; Currency: Birr (\$1=8.737); p.c.i: \$900.



Government Type: Federal Republic; President: Girma Woldegiorgis; PM: Meles Zenawi.

History: Black Africa's oldest state formerly known as Abyssinia. A mountainous country in north-east Africa, it has a colourful history. The Ethiopian emperors claimed descent from King Solomon and the famous Queen of Sheba. The last Emperor of Ethiopia Haile Sellasie I was deposed by armed marxist forces which took over the govt. in 1974. Opposition to this government mounted in 1991 and marxist leader Mengistu Haile Mariam had to flee the country. A new government consisting of various groups was formed by the Ethiopian Revolutionary Democratic Front, an umbrella group of six rebel armies. Eritrea, a province on the Red Sea, declared its independence in 1993.

May, 1995 saw the birth of a new Federal Democratic Republic of Ethiopia after four years of transitional rule. The new constitution divides Ethiopia into nine ethnically distinct regions, which have the ri through a popular referendum

There was an undeclared war between Ethiopia and Eritrea (May-June, 1998) over an area on the border between the two. Efforts by OAU didn't yield much. Fighting resumed in 1999 and 2000. Thousands died on both sides. In Dec. the two countries formally ended the war, with an accord signed in Algiers, but tensions continued.

Economy: Ethiopia's economy is based on agriculture, which accounts for half of GDP, 85% of exports, and 80% of total employment. The agricultural sector suffers from frequent drought and poor cultivation practices; and as many as 4.6 million people need food assistance annually. Coffee is the most important export. Other important exports include gat, live animals, hides, and gold.

Recent Events: In May, 2006, six political parties and armed groups formed an opposition alliance, the Alliance for Freedom and Democracy, at a meeting in the Netherlands. Several bomb blasts hit Addis Ababa.

Mission in India: Embassy of the Federal Democratic Republic of Ethiopia, 7/50-G, Satya Marg, Chanakyapuri, New Delhi-110021. Tel: 26119513, 26119514; Fax: 26875731.

E-mail: delethem@yahoo.com

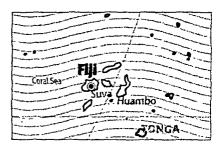
Indian Mission in Ethiopia: Embassy of India, Kabena (Aware District) W-13, K-15, H.No. 224, Post Box 528, Addis Ababa, Ethiopia. Tel: 00-251-1-552100, 550694,556610, 556611; Fax: 00-251-1-552521, 552305.

E-mail:indembassy@telecom.net.et

60. Fiji

(Republic of the Fiji Islands)

Capital: Suva; Other Large Cities: Lautoka, Nadi; Area: 18,376 sq.km; Population: 905,949; Languages: English, Fijian and Hindi; Religions: Christian-52% (Methodist-37%, Roman Catholic-9%), Hindu-38%, Muslim-8%, others-2%; Literacy: 93.7%; Life Expectancy: 69.82; Currency: Dollar (\$1



=1.75); p.c.i: \$ 6,000; Date of Independence: 10th October, 1970.

Government Type: Republic; President: Ratu Josefa Iloilo Vatu; PM: Laisenia Qarase.

Fiji consists of 332 islands and islets in western S. Pacific, lying 1750 km. north of New Zealand. The largest of the islands Viti Levu constituting more than half of the total land area of Fiji islands is the seat of the government. Fiji lies on the main route between Australia, New Zealand and North America and is the centre of communications in the South West Pacific.

History: These islands came under British rule in 1874. From 1879, indentured Indian labour was imported into the islands to work on European sugar plantations. Practically all the Indian workers settled permanently in the islands. Their descendants now form about half of the population. Melanesians, the original inhabitants, make up 43 per cent, the rest being made up of Europeans, Chinese and others. On Oct. 10, 1970 Britain granted independence to Fiji.

Economy: Fiji is a famous tourist centre with 3,00,000 to 4,00,000 tourists annually. Its major products are agricultural. Sugar and coconuts form 90 per cent of the total exports. Rice and ginger are grown too. Mining is limited and industries are (sugar refining, light industry and tourism) growing .Gold is mined on Viti Levu, and is another major export.

In October 1987 military strongman Col. Sitiveni Rabuka declared Fiji a republic defy-

ing popularly elected government headed by Dr. Thimoci Bavadra, leader of the majority Indian ethnic group. A civilian government was restored to power in December.

A new constitution favouring indigenous Fijians was issued in July, 1990. In the 70member Parliament, there were 27 seats for Indians. The posts of President and PM were reserved for indigenous Fijians.

Labour Party leader Mahendra Chaudhry, the first ethnic Indian to hold the post, became PM in June '99.

On May 19, 2000 George Speight, a local businessman, took most of the cabinet hostage. He favoured dominance of indigenous Fijians, Two months of political unrest ended in July with the formation of a new government. Speight was imprisoned. The deposed PM Chaudhry was freed in July after 55 days of captivity. Indians were offered 14 cabinet posts in 2003.

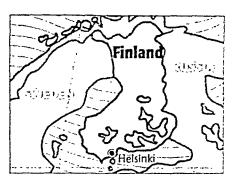
Recent Events: In March 2006, Great Council of Chiefs elected incumbent president lloilo to a second, five-year term. In May, former PM Sitiveni Rabuka was charged with orchestrating a failed army mutiny in November 2000. Ruling party leader and incumbent Prime Minister Lae Senia Qarase narrowly won elections and was sworn in for a second term.

Indian Mission in Fiji: High Commission of India, Level 7, LIC Building, Butt. Street, P.O. Box 471, Suva, Fiji Islands. Tel: 00-679-301125; Fax: 00-679-301032.

E-mail:hicomindsuva@is.com.fj

61. Finland

(Republic of Finland)/Suomen Tasavalta Capital: Helsinki; Other Large Cities: Tampere, Espoo; Area: 338,000 sq.km.; Population: 5,231,372; Languages: Finnish and Swedish; Religions: Lutheran National Church-84.2%, Greek Orthodox in Finland-1.1%, other Christian-1.1%,, others-0.1%, None-13.5%; Lit-



eracy: 100%; Life Expectancy: 78.5; Currency: Euro (\$1= 0.79); p.c.i: \$ 30,900; Date of Independence: 6th December, 1917.

Government Type: Republic; President: Ms. Tarja Halonen; PM: Matti Vanhanen.

History: The Republic of Finland is a Baltic State, which once formed part of the Russian Empire. It became independent on Dec. 6, 1917 and a republic in 1919.

Off the south-west coast are the Swedishpopulated, autonomous Aland islands, controlling the entrance to the Gulf of Bothnia. Finland has more than 20,000 lakes. 62% of the population live in urban areas.

Economy: The most important rural activity is forestry. Finland's vast forests of pine, spruce, and birch support a number of maior industries. The extensive pulp and paper sector is responsible for around one-quarter of world paper exports. Other industries are shipbuilding, metals, machinery, textiles, leather and chemicals. Finland was among the first countries to deregulate its telecommunications industry and is now the world's most connected country. Finland now has the highest per capita number of interest connections. Finland has a fairly big fleet of merchant marine. Chief agricultural crops are grains, potatoes and dairy products. With the help of investments in export industries and hi-tech, exports as a share of con declaration? to 40% in the ten years to joined the EU on Jan. 1, 1995

Mission in India: Embassy o

E-mail: sanomat.nde@formin.fi

Consulate: Mumbai, Tel:22165277, Fax:22164213,

E-mail:ram tarneja@bsbmumbai.org;

Calcutta: Tel:22474328, 2247 1950, Fax:22474329.

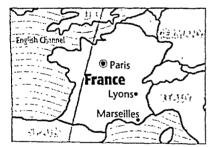
E-mail: mpc@cal.vsnl.net.in; Chennai: Tel:28524141, Fax:28521253.

E-mail:siva holdings@vsnl.net

Indian Mission in Finland: Embassy of India, Satamakatu 2 A 8, 00160, Helsinki, Finland. Tel: 00-358-9-608927, 608935; Fax: 00-358-9-6221208.

62. France

(French Republic)/Republique Francaise



Capital: Paris; Other Large Cities: Marseilles, Lyons, Strasbourg; Area: 543,965 sq.km; Population: 60,876,136; Languages: French and regional dialects; Religions: Roman Catholic-83%-88%, Protestant-2%, Jewish 1%, Muslim-5%-10%, Unaffiliated-4%; Literacy: 99%; Life Expectancy: 79.73; Currency: Euro (\$1=0.79); p.c.i: \$ 29,900; Date of Independence: 486 (Unification by Clovis).

Government Type: Republic; President: Jacques Chirac. PM: Dominique de Villepin.

History: France, the largest country in western Europe, lies between three big nations— Spain, Germany and Italy. The island of Corsica—the birthplace of Napoleon—forms an integral part of France. The French Revotion (1789-1793) made France, once a gramonarchy, a republic. Since then republic and imperial forms of government follow one after another until the Fifth Republic. T French Community came into being in 19 under President Charles de Gaulle. France a member of the European Union.

Economy: The country is the largest fo producer and exporter in Western Europ Main crops: Grains, maize, rice, fruits, ve etables, wine, potatoes, livestock and da products. Among manufactured products, t most important are chemicals, silk, cotton to tiles, automobiles, aircraft, ships, precision is struments, electronic equipment, perfum and wines. Over the last 20 years urban c velopment and technological progress ha changed the people's everyday life profound Life expectancy: Male 75, Female: 83.

France is the world's fourth-largest indutrial power and has many globally importa companies. Danone, for example, is the world's largest dairy products firm, and two major car companies, Peugot-Citroen ar Renault, account for one-eighth of France exports. Another distinctive export has been the high-speed train, the TGV.

France exploded a nuclear device Mururoa atoll (First tests in 1966) on Sept. 1995. In January 96, France announced the end of the series of tests.

Violence by Corsican separatists has bee worrying successive governments for a quater century.

France which had 75.5 m. foreign visitors i 2000, reinforced its position as the world's movisited country. The Eiffel Tower, France's movisited monument, has 15,000 tourists daily.

Overseas Departments: French Guiana Guadeloupe, Martinique, Reunion.

Overseas Territories: French Polynesia French Southern and Antarctic Lands, Nev Caledonia and dependencies, Wallis and Futuna Islands. Overseas departments elec representatives to the National Assembly and the administrative organisation of mainland France applies to them. The administrative organisation of overseas territories includes a locally elected government.

Territorial collectivities: St. Pierro and Miquelon; Mayotte.

Recent Events:In March-April 2006, new youth employment laws sparked mass demonstrations in Paris and other cities across France. As protest continued, the legislation was scrapped. In June, Upper house of parliament passed a bill setting tough new restrictions on immigration. The rules made it harder for low-skilled migrants to settle. France were the runner-up in the 2006 FIFA World Cup Soccer tournament. In the 110th minute of the World Cup final against Italy, French player Zidane was sent off for headbutting Marco Materazzi in the chest in an off-the-ball incident after the two players had exchanged words. Despite the subsequent controversy over his offence in the final, Zidane was awarded the Golden Ball as best player in the 2006 World Cup.

Mission in India: Embassy of France, 2/50-E, Shantipath, Chanakyapuri, New Delhi-110021, Tel: 26118790; Fax: 2687 2305.

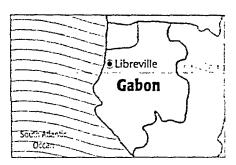
Consulate General of France: Hoechst House, 7th Floor, Nariman Point (next to NCPA), Mumbai-400 021. Ph: 0091-22-56694000: Web: www.consulfrancebombay.org.

Indian Mission in France: Embassy of India, 15, Rue Alfred Dehodencq, 75016 Paris, France. Tel: 00-33-1-40507070, 45243340; Fax: 00-33-1-40500996.

E-mail: ambassador2@wanadoo.fr

63. Gabon

(Gabonese Republic) Republique Gabonaise Capital: Libreville; Other Large Cities: Port-Gentil, Masuku; Area: 267,667; Population: 1,424,906; Languages: French and Bantu dia-



lects; Religions: Christian-55%-75%, Animist, Mulsim less than 1%; Literacy: 63.2%; Life Expectancy: 54.49; Currency: CFA Franc (\$1= 518.98); p.c.i: \$6,800; Date of Independence: 17th August, 1960.

Government Type: Republic; President: Omar Bongo; PM: Jean Eyeghe Ndong.

History: The Gabon Republic is situated on the western coast of central Africa. Formerly a province of French Equatorial Africa, Gabon attained independence on Aug. 17, 1960.

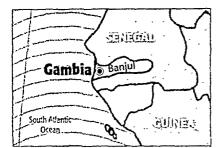
Economy: Gabon is one of the most prosperous black African countries. Most of the country is covered by a dense tropical forest. Chief crops are cocoa, coffee, rice, peanuts, sugarcane. The economy, traditionally dependent on forestry, is now dominated by mining. The manganese deposit at Moanda in the south is one of the world's richest deposits. Crude oil production is already the fifth highest in Africa. Uranium, gold and iron ore are also mined. Industry: Processing of food, timber and textiles

Recent Events: • President Omar Bongo who has ruled Gabon for 35 years, has secured a constitutional change that could allow him to be in power indefinitely.

Mission in India: Embassy of Gabon stationed at Tokyo

64. The Gam

(Republic of The Ga Capital: Banjul; (Serrekunda, Farafeni



Population: 1,641,564; Languages: English and Mandinka, Wolof; Religions: Muslim-90%, Christian-9%, Indigenous beliefs-1; Literacy: 40.1%; Life Expectancy: 54.14; Currency: Dalasi (\$1=28.3); p.c.l: \$ 1,900; Date of Independence: 18th February, 1965

Government Type: Republic; Head of State& Govt: Lt. Yahya Jammeh.

The Gambia, the smallest African country, is a narrow strip of land in West Africa, extending inland from the Atlantic Ocean for about 30 miles on either side of the Gambia River and surrounded on three sides by Senegal. Nearly half the inhabitants belong to the Mandingo tribe.

History: Formerly a British colony and protectorate, the Gambia became an independent state within the Commonwealth on Feb. 18, 1965 and a Republic in April 1970.

After a coup attempt in 1981, the Gambia formed the confederation of Senegambia with Senegal. This lasted until 1989.

In July, '94, a military coup ousted President Dawda Jawara, who was in power for 24 years. In Aug. '96, voters approved a constitution paving the way for a return to democracy. The 2-year-old ban on political parties was lifted.

Economy: Peanuts are the main crop, along with rice and palm kernels. Textiles, food and manufactured goods are significant items of import. Tourism is the biggest foreign exchange earner.

Mission in India: Honorary Consulate General of the Republic of Gambia, B-11, May

Fair Garderns, New Delhi-110 016; Tel: 26860285; Fax: 91-24532503.

E-mail: kvachani @hotmail.com

65. Georgia

(Republic of Georgia)/Sakaratvelos Respublica Capital: Tbilisi (Tiflis); Other Large Cities: Kutaisi, Batumi; Area: 69,700 sq.km; Popula-



tion: 4,661,473; Languages: Georgian, Russian; Religions: Georgian orthodox-65%, Muslim-11%, Russian Orthodox-10%, Armenian Apostolic-8%, Unknown-6%; Literacy: 100%; Life Expectancy: 76.09; Currency: The Lari (\$1=1.77); p.c.l: \$3,300; Date of Independence: 9th April, 1991

Government Type: Republic; President: Mikhail Saakashvili; PM: Zurab Noghaideli.

History: Georgia, a former Soviet republic that became independent in Dec., 1991, is bordered by the Black Sea, Turkey, Armenia and Azerbaijan.

Georgia has a fine climate and is known for its natural wealth, variety and beauty. It has the largest manganese mines in the world.

Georgia includes the Autonomous Republics of Abkhasia and Adjaria and the former Autonomous Region of South Ossetia.

Economy: Agriculture: Tea, citrus fruits, grapes, grain, vegetables, potatoes; silk, to-bacco, bamboo, eucalyptus. Natural resources: Manganese, coal, baryta, oil, marble, iron. Industry: Food processing, tea, brew-

ery, textile, chemical fibres, paper and metallurgy.

Georgia was admitted to the UN as the 179th member in July, 1992 - the last of the former Soviet republics to join the world organisation. It joined the Commonwealth of Independent States (CIS) early 1994. In Feb.'94, Georgia signed agreements with Russia for economic and military cooperation. Fighting between government forces and Abkhazian separatists was intense in 1993. In May '94, ceasefire agreement was signed.

Mission in India: Honorary Consulate of Georgia, 19 DDA, Community Centre, Zamrudpur, Kailash colony Ext., New Delhi-110 048; Tel: 26431015; Fax: 26447864.

E-mail: georgiaconsulate@rediffmail.com

66. Germany

(Federal Republic of Germany) Bundesrepublik Deutschland



Capital: Berlin; Other Large Cities: Hamburg, Munich, Cologne, Frankfurt, Leipzig; Area: 357,020 sq.km.; Population: 82,422,299; Languages: German; Religions: Protestant-34%, Roman Catholic-34%, Muslim-3.7%, unaffiliated or others-28.3%: Literacy: 99%: Life Expectancy: 78.8; Currency: Euro (\$1=0.79); p.c.i: \$ 30,400; Date of Independence: 3rd October, 1990 (date of unification of West Germany and East Germany)

Government Type: Federal Republic, Presi-

dent: Horst Koehler; Head of Govt: Chancellor Angela Merkel.

The Federal Republic of Germany in Central Europe (United Germany of East and West) covers an area of 357,020 sq km made up of mountain areas, uplands and plains. To the north the country is bounded by the North Sea and the Baltic, to the south by the Alps, Lake Constance and the Rhine, which also forms the border in the south-west. The main rivers are the Rhine, the Danube, the Albe, the Weser and the Moselle. The highest mountain is the Zugspitze (2,963 m.) in the Alps. The uplands rise to 1,500 m.

History: Germany since 1871 had been a nation united in one country of numerous states which had a common language and traditions. Since World War II, until 1990, it had been split in two parts: Federal Republic of Germany (West Germany) and German Democratic Republic (East Germany). The merger of the two Germanys took place on Oct. 3, 1990 and the first all-German elections since 1937 were held on Dec. 2, 1990.

Germany is a democratic, parliamentary state with a federal constitution. The Federal Republic is made up of 16 Lander (States). The Bundestag (Federal Diet) is the supreme legislative body. With the addition of 144 members of the East German Volkskammer. the total membership rose to 663 in 1990.

Economy: Or the land 48% is used for agriculture and 29% is wooded. Chief cross Grains, potatoes, sugar beets. Major mineral resources. Lignite, coal, iron and come ores and potash Industry: Steel, ships, inhicles, machinery coal and chemicals.

Germany has one of the most germany welfare systems with high unempion benefits and densions. This come of since total deductions shared be ployers and workers now are than 40% or pay nd to meet these TV notesandly u

costs are one-third higher than in the USA or the UK. Another notable feature of the German economy and society is a concern for the environment. The country has intensive systems of recycling-around 7,00,000 jobs are linked with environmental protection.

As Europe's largest economy and most populous nation, Germany remains a key member of the continent's economic, political, and defence organisations. In January 2002, Germany and 11 other EU countries introduced a common European currency, the euro. Germany's 7.3 m. legal foreign workers account for about 9 per cent of the population. Germany's ageing population, combined with high unemployment, has pushed social security outlays to a level exceeding contributions from workers.

Recent Events: In July 2006, Parliament approved far-reaching changes to the way in which Germany was governed; the reforms were intended to speed up decision-making. Germany hosted the 2006 FIFA World Cup soccer tournament.

Mission in India: Embassy of the Federal Republic of Germany, No.6/50-G, Chanakyapuri, New Delhi-110 021. Tel: 26871831, Telefax: 26873117.

E-mail:germany@del3.vsnl,net.in germany @vsnl.com

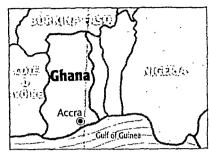
Indian Mission in Germany: Embassy of India, Tiergartenstrasse 17, 10785 Berlin, Germany. Tel:00-49-30-257950, 25705001 (After Office Hour) Fax:00-49-30-25795102 (Chancery).

E-mail:chancery@indiaembassy.de

67. Ghana

(Republic of Ghana)

Capital: Accra; Other Large Cities: Kumasi, Takoradi; Area: 238,537 sq. km; Population: 22,409,572; Languages: English (official language) and eight major national languages; Religions: Christian-63%, Muslim-16%, indig-



enous beliefs-21%; Literacy: 74.8%; Life Expectancy: 58.87; Currency: Cedi (\$1=9142); p.c.i: \$ 2,500; Date of Independence: 6th March, 1957.

Government Type: Republic; President (Head of State & Govt): John Kufour; Vice President: Alhaji Aliu Mahama.

A country tucked between Togo and Cote D'Ivoire on the southern coast of West Africa, Ghana is composed of the former British colony Gold Coast and the British-ruled Togoland.

History: Independence came on March 6, 1957. Republic status within the Commonwealth was attained on July 1, 1960. Dr. Kwame Nkrumah was the first President. Coups occurred in 1966, 1972, 1978, 1979 and 1981. A new pluralistic democratic constitution was approved in 1992.

Economy: Ghana is primarily an agricultural country which held position as world's leading producer of cocoa for long. Other crops: kolanuts, palm products, bananas, coffee, maize and rubber. Exports: Timber, gold, diamonds, manganese, bauxite and cocoa. Industry: Aluminium and light industry.

Recent Events: John Kufuor (in power since 2001) is the first democratically elected president since independence. Falling prices of cocoa and rising cost of imported oil have hit Ghanian economy hard.

Mission in India: Ghana High Commission, 50-N, Satya Marg, Chanakyapuri, New Delhi-110021. Tel: 26883315, 26883298, 26883338; Telefax: 26883202.

E-mail: ghstarin@vsnl.net

Indian Mission in Ghana: High Commission of India, No.9, Ridge Road, Roman Ridge, P.O. Box CT-5708, Accra, Ghana. Tel: 00-233-21-775601, 775602; Fax: 00-233-21-772176.

E-mail- indiahc@ncs.com.gh

68. Greece

(Hellenic Republic) Elliniki Dimokratia



Capital: Athens; Other Large Cities : Thesaloniki, Salonika, Larissa; Area: 131,990 sq.km; Population: 10,688,058; Languages: Greek; Religions: Greek Orthodox (Christian)-98%, Muslim-1.3%, others-0.7%; Literacy: 97.5%; Life Expectancy: 79.24; Currency: Euro (\$1= 0.79); p.c.i: \$ 22,200; Date of idependence: 1829.

Government Type: Parliamentary Repubic; President: Karolos Papoulias; PM: ionstandinos Karamanlis.

History: Greece or the Hellenic Republic, in the Mediterranean Sea, occupies the outhern end of the Balkan Peninsula in southeast Europe. Ancient Greece's achievements n art, architecture, science, mathematics, shilosophy, drama, literature and democracy were unparalleled. The country reached the eak of its glory in the 5th century B.C.

Politically independent till the 1st century .C., the Greeks succumbed to Roman might the latter half of that century. Later they me under Byzantine and Ottoman empires. · 1830, Greece regained its freedom as a monarchic state. After many vicissitudes of fortune, monarchy was abolished in 1974. since then Greece has been a republic. Greece is a member of the European Union.

Numerous islands constitute about onefifth of total area, of which the largest is Crete.

Tensions between Greece and the Former Yugoslav Republic of Macedonia eased in Sept. 1995 with their agreeing to normalise relations.

Economy: Greece, though till recently an agricultural country, has now developed industrially. In merchant shipping, Greece owns a surprisingly big tonnage. Tourism is Greece's biggest industry. Others: Textiles, chemicals, metals, wine, food processing, cement. Chief crops: Wheat, sugar beet, grapes, other fruits, milk, olive oil, cotton.

Recent Events: In March 2006, public sector workers staged 24-hour strike in support of demand for pay increase and in protest at government plans to scrap job security laws and intensify privatisation programme. In May, Greek and Turkish fighter planes crashed into Aegean after colliding in mid-air.

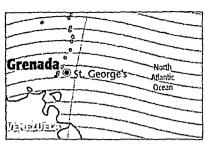
Mission in India: Embassy of Greece, EP-32, Dr. S. Radhakrishnan Marg, Chanakyapuri, New Delhi-110021. Tel: 26880700, Telefax: 26888010; E-mail:hellemb@eth.net; Web : www.greeceinindia.com

Indian Mission in Greece: Embassy of India.3. Kleanthous Street, 10674 Athens, Greece, Tel: 00-30-1-7216227, 7216481, Fax: 00-30-1-7211252.

E-mail:indembassy@ath.forthnet.gr

69. Grenada

Capital: St. George's; Area: 344 sq.km; Population: 89,703; Languages: English and French-African patois; Religions: Roman Catholic-53%, Anglican-13.8%, Protestant-33.2%; Literacy: 96%; Life Expectancy Currency: East Caribbean Dollar (p.c.i: \$ 5,000; Date of Independent ruary, 1974



Government Type: Parliamentary Democracy; Gov.Gen.: Daniel Williams; PM: Keith Mitchell.

History: Grenada is an island country in the West Indies. It is the most southerly island of the Windward Islands chain and includes Southern Grenadines (islands), the largest of which is Carriacou. Grenada became independent in 1974.

The population is of mixed origin: European, Negro and Carib Indians.

Economy: Tourism is a growing industry (380,000 visitors in 1998-99) but agriculture dominates the economy. Grenada is known as the 'Spice Island' and is the world leader in the production of nutmeg and mice. Other major agricultural products are cocoa, bananas and tropical fruit and vegetables.

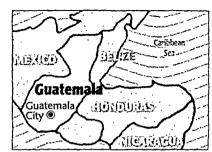
Mission in India: Honorary Consulate of Grenada, 12, Sunder Nagar, New Delhi-110 003. Tel: 24354512; Fax: 23328307.

E-mail: skkandhari@vsnl.net

70. Guatemala

(Republic of Guatemala) Republica de Guatemala

Capital: Guatemala City; Other Large Cities: Escuintia, Peurto Barrios; Area: 108,889 sq.km; Population: 12,293,545; Languages: Spanish and Indian dialects; Religions: Roman Catholic, Protestant, Indigenous Mayan beliefs; Literacy: 70.6%; Life Expectancy: 69.38; Currency: Quetzal (\$1=7.62); p.c.i: \$4,700; Date of Independence: 15th September, 1821.



Government Type: Republic; President: Oscar Jose Rafael Bertger Perdomo.

History: Guatemala, a republic, is the northernmost and the third largest of the five central American states and has the largest population. Fifty per cent of the population is of Indian (Red) origin, 45 per cent Ladino or of mixed European and Indian parentage. The Indians are the descendants of the builders of the great Maya civilisation which was wiped out by the Spanish conquistadors.

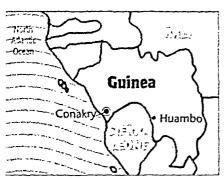
After remaining as a Spanish colony for about three centuries (1524 –1821), Guatemala became a republic in 1839. Guatemala's claims to British Honduras (Belize) led to the rupture of diplomatic relations with Britain 1963. More than 100,000 people hav been killed in civil wars since 1961.

Economy: The soil is very fertile. Agriculture is the most important occupation. Principal crop is coffee. Other important exportitems are bananas, cotton, gum, sugar, maize, tobacco, fruits and beef. Industry: Food and beverages, textiles, tyres, construction materials, tobacco and chemicals.

Indian Mission in Guatemaia: Honorary Consulate of India, P.O. Box No. 886, 14 Calk 14-84 zona 10, Oakland, Ciudad di Gautemaia, Gautemaia. Tel: 00-501-3682271; Fax: 00-502-3664049.

71. Guinea

(Republic of Guinea) Republique de Guine Capital: Conakry; Other Large Citie



Kankan, Kindia: Area: 245,857 sq.km; Population: 9,690,222; Languages: French and 8 national languages; Religions: Muslim-85%, Christian-8%, indigenous belifes-7%; Literacy: 35.9% (in French); Life Expectancy: 49.7; Currency: Franc (\$1=4600); p.c.i: \$ 2,000; Date of Independence: 2nd October, 1958.

Government Type: Republic; President: Gen. Lansana Conte. PM: Cellou Dalein Diallo.

History: Guinea is a former French overseas territory on the Atlantic coast of West Africa.

Under the constitution of the Fifth (French) Republic, Guinea voted for secesion and proclaimed itself an independent epublic on October 2,1958. The first Presilent was Sekou Toure. The army mutiny of eb. 1996 was suppressed by President onte.

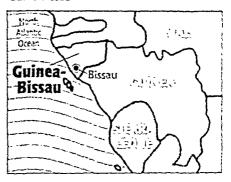
Economy: Subsistence agriculture suports 80% of the population. Main crops re cassava, plantains, sugarcane, bananas md palm kernels. It exports coffee, honey, Pananas, palm kernels, iron and aluminium we. Guinea has probably the world's largst deposit of bauxite.

Fren per cent of Guinea's population is omposed of refugees from neighbouring erra Leone and Liberia. This is a burden n the weak economy.

Mission in India: Embassy of Guinea staaned at Moscow.

72. Guinea-Bissau

(Republic of Guinea-Bissau) Republica da Guine-Bissau



Capital: Bissau; Area: 36,125 sq.km; Population: 1,442,029; Languages: Crioulo, Portuquese and tribal languages; Religions: indigenous beliefs-50%, Muslim-45%, Christian-5%; Literacy: 42.4%; Life Expectancy: 46.87; Currency: CFA Franc (\$1=518.98); p.c.i: \$ 680; Date of Independence: 24th September, 1973.

Government Type: Republic; President: Ioao Bernardo 'Nino' Vieira; PM: Aristides Gomes.

History: Guinea-Bissau, formerly Portuguese Guinea, is on the Atlantic coast of West Africa. The land is part plain and part plateau.

Guinea-Bissau unilaterally declared independence in 1973. Portugal recognised its independence in 1974. Joao Bernardo Vieira who seized power in 1980, was elected in 1989 and re-elected in 1994. A civil war was triggered by an army uprising in June, 1998 and Vieira was toppled. There was a military coup in 2003.

In May '97, Guinea-Bissau joined the French Franc Zone.

Economy: The main occupation is agriculture. Swamp rice (grown in the coastal plains), coconuts, cassava, swent potatoes and maize form the import crops. Sand The cash crops are groundn palm oil. Cattle raising is w try: Food processing, beer a

73. Guyana

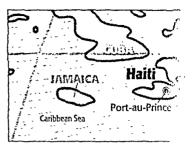
(Co-operative Republic of Guyana)



Capital: Georgetown; Other Large Cities: Linden, New Amsterdam; Area: 214,969 sq.km; Population: 767,245; Languages: English, Hindi, Urdu, Creole; Religions: Christian-50%, Hindu-35%, Muslim-10%, others-5%; Literacy: 98.8%; Life Expectancy: 65.86; Currency: Guyanese Dollar (\$1=190); p.c.i: \$4,600; Date of Independence: 26th May, 1966.

74. Haiti

(Republic of Haiti) Republique d' Haiti



Capital: Port-au-Prince; Area: 27,750 Population: 8,308,504; Languages: (official), and Creole; Religions: Romanlic-80%, Protestant-16%, none-1%, 3%; Literacy: 52.9%; Life Expectanc, Currency: Gourde (\$1=38.65); p.c.i: Date of Independence: 1x January,

Government Type: Elected Comp

Economy: Chief agricultural products: Coffee, sugar, bananas, rice, cocoa, tobacco, sisal and cotton. Industry: Sugar refining, textiles and cement. Rum and other spirits are distilled from molasses and exported. Bauxite is the chief mineral exported. Tourism is Haiti's second largest source of foreign exchange. Two-thirds of Haiti's inhabitants live in poverty, half of all adults are illiterate and less than a quarter of rural children attend primary school. Infant and maternal mortality rates remain among the highest in the world.

Outside Africa, Haiti has the highest rate of HIV infection among adults: 5 percent. It produces more new cases of HIV-AIDS each year than the entire U.S.

Recent Events: Haiti went to polls in February 2006, the first since former president Aristide was overthrown in 2004, Rene Preval was declared the winner of the presidential vote after a deal was reached over spoiled ballot papers.

Indian Mission in Haiti: Honorary Consulate of India, C/o. Hnadal & Fils, 199, Rue Du Magasin de L'Etat, P.O.Box No.633, Port-au-Prince (Republic of Haiti). Tel: 00-(509) 222310; Fax: 00-(509) 238489.

75. Honduras

(Republic of Honduras) Republic de Honduras



Capital: Tegucigalpa D.C.; Area: 112,088 sq.km; Population: 7,326,496; Languages:

Spanish and some Indian dialects: Religions: Roman Catholic-97%, Protestant-3%: Literacy: 76.2%; Life Expectancy: 69.33; Currency: Lempira (\$1=18.89); p.c.i: \$ 2,900; Date of Independence: 15th September, 1821.

Government Type: Republic; President: Manuel Zelaya Rosales.

History: Honduras is a republic of Central America lying between Nicaragua, El Salvador and Guatemala. It has a long northern coastline on the Caribbean and a narrow southern outlet to the Pacific. Originally a Spanish colony, Honduras became independent in 1821. The country has gone through a series of dictatorships, military juntas, coups and counter-coups.

Economy: Honduras is one of the poorest countries in the western hemisphere. The chief crop is bananas which constitute 65 per cent of the country's exports. Coffee, cotton, maize and tobacco are also grown. Timber is abundant and cattle raising is a major occupation. Industry: Textiles, wood products, cigars, beer and cement.

Recent Events: In April 2006, free trade deal with the US came into effect. The Honduras Congress approved the Central American Free Trade Agreement (Cafta) in March 2006. Honduras and neighbouring El Salvador inaugurated their newly-defined border. The countries had fought over the disputed frontier in 1969.

76. Hungary

(Republic of Hungary) Magyar Koztarsasag Capital: Budapest: Other Large Cities: Miskolc, Debrecen; Area: 93,033 sq.km, Population: 9,981,334; Languages: Hungarian (Magyar); Religions: Roman Catholic-67.5%, Calvinist-20%, Lutheran-5%, atheist and others-7.5%; Literacy: 99,4%; Life Expectant

rency: Forint (\$1=217.014); p Date of Independence: 1001 (I tion by King Stephen I).



Government Type: Parliamentary Democracy; President: Laszlo Solyom; PM: Ferenc Gyurcsany.

Hungary is situated in East Central Europe. The eastern half of Hungary is mainly a great fertile plain, 'the Great Plain'. The west and the north are hilly.

History: Hungary had a stormy history being successively overrun by Huns, Magyars, Turks, Hungarians and Austrians. Hungary became an independent republic in 1918 and the Hungarian Socialist Republic in 1919. In 1990, Hungary embraced democracy and market economy. The last Soviet troops left Hungary in June, 1991. In July '97, NATO invited Hungary to become a full member of the alliance within two years. The country

joined NATO in March '99.
Economy: Although an agricultural country in the past, since the Second World War industry has come to account for more than half of its total economy. Hungary exports engineering products, machine tools, motor vehicles and electrical and electronic goods. Chief imports are iron ore, coal, crude oil and

consumer goods. More than 97 per cent of agricultural land is collectivised. Vineyards occupy around 186,000 hectares. Other crops: Grains, sunflowers, potatoes and sugar beets.

Recent Events: In April 2006, over 10,000 troops and police were deployed to battle flooding as river Danube reached record levels.

Mission in India: Embassy of the Republic of Hungary, 2/50 M, Niti Marg, Chanakya-

puri, New Delhi-110021. Tel: 26114737; Teleax: 26886742.

E-mail:huembde12@vsnl.com Indian Mission in Hungary: Embassy of India, Buzavirag utca 14, 1025 Budapest, Hungary. Tel: 00-36-1-3257742, 3257743; Fax:

E-mail:chancery@indembassy.hu Webset: www.chancery@indembassy.hu

77. Iceland

00-36-1-3257745.

(Republic of Iceland) Lyoveldio Island



Capital: Reykjavik; Area: 102,846 sq.km; Population:299,388; Languages: Icelandic; Religions: Evangelical Lutheran-87.1%, Other Protestant -4.1% Literacy: 99%; Life Expectancy: 80.31; Currency: Krona (\$1=75.135); p.c.ì: \$ 35,600; Date of Independence: 17th

June, 1944.

Government Type: Constitutional Republic; President: Olafur Ragnar Grimsson; PM:
Geir H. Haarde.

Iceland is an island close to the Arctic Circle in the North Atlantic. The Norwegian Sea is on the eastern side of Iceland. The warm Gulf Stream makes the winters mild.

During the short cool summers, there is perpetual daylight for many weeks, making it an island of the Midnight Sun. The island has many geysers and hot springs. Iceland has over 200 volcanoes, many of them still active.

History: The people of Iceland are the descendants of the dare-devil Vikings of Norway. After having been independent till the 13th century it became part of Norway, and then passed under Danish rule. In 1941 the Althing (the world's oldest surviving parliament) voted for complete independence and a republic was formed on June 17, 1944. Iceland's language has maintained its purity for 1000 years.

Economy: Much of the land in Iceland lies uncultivated. Potatoes, turnips and hay are the major crops. Fishing industry is highly developed. Exports: Marine products and aluminium. Iceland taps thermal and hydro power for energy-hungry industries. A \$ 2 billion hydro-electric system and aluminium smelter to be built by 2008 will double growth from the current unusually low rate of 1,5%.

Mission in India: Embassy of Iceland stationed at London.

Consulates: Consulate General, 'Speedbird House', 41/2 M, Connaught Circus, New Delhi-110 001, Tel: 23417122; Fax: 23416275.

E-mail: khemka@13.vsnl.net.in E-mail: Khemka@de13.vsnl.net.in

Indian Mission in Iceland: Honorary Consulate General of India, Solvallagate 48, 101, Reykjavík, Iceland. P.O. Box No. 678, 121 Reykjavik. Tel: 00-354-1-28255; Fax: 00-354-1-625010.

78. India

(Republic of India)

Capital: New Delhi; Other Large Cities: Mumbai, Kolkata, Chennai; Area: 3,287,263 sq.km.; Population: 1,095,351,995; Languages: Hindi (official), English, 18 officially recognised languages; Religions: Hindu-81.3%, Muslim-12%, Christian-2.3%, Sikh-1.9%, Other groups including Buddhist, Jain, Parsi-2.5; Literacy: 64.8%; Life Expectancy: 64.35; Currency: Rupee (US \$1 = 46.84); p.c.l: \$ 3,300; Date of Independence: 15th August, 1947.

Government Type: Federal Republic: President: A.P.J. Abdul Kalam: PM: Dr. Manmohan Sinah.

For details see Part-Eight, India

79. Indonesia

(Republic of Indonesia) Republik Indonesia



Capital: Jakarta: Other Large Citles: Surabaya, Bandung; Area: 1,904,569 sq.km; Population: 245,452,739; Languages: Bahasa Indonesian, Dutch, English, Javanese and other Austronesian languages; Religions: Muslim-88%, Protestant-5%, Roman Catholic-3%, Hindu-2%, Buddhist-1%, others-1%; Literacy: 87.9%; Life Expectancy: 69.87; Currency: Rupiah (\$1=9292.50); p.c.l: \$ 3,600; Date of Independence: 17th August, 1945.

Government Type: Republic; Head of State & Govt (President): Susilo Bambang Yudhoyono.

History: Formerly the Dutch East Indies, the Republic of Indonesia, the biggest Islamic nation, is an archipelago state consisting of about 13,500 (6000 inhabited) islands extending some \$150 km, along the Equator in the Indian and Pacific Oceans.

The largest islands of the archipelago are Sumatra, Java, Kalimantan (Indonesian Borneo), Sulavesi and Irian Java.

The islands were made an integral part of the Netherlands Kingdom in 1922. During World War II, Indonesia was under Japanese military occupation. On Aug. 17, 19 donesia proclaimed independ Dutch.

After a war of independence, the Netherands transferred sovereignty to Indonesia on December 27, 1949. A republic was declared August 17, 1950, with Dr. Sukarno as president. Gen. Suharto, head of the army was marned President in 1968.

The year 1998 was marked by economic chaos. Gen. Suharto was forced to resign in May. He was succeeded by his vice-president, Bacharuddin Jusuf Habibie. Abdurrahman Wahid, leader of Indonesia's largest Muslim organisation, was elected president in Oct.20, 1999. He was on a collision course with the House of Representatives since Feb. after two scandals and debate on his impeachment began in May. On July 23, he was dismissed by National Assembly.

Indonesia annexed East Timor in 1976. A referendum (UN called it 'popular consultation') was held in East Timor on Aug. 30, '99. Ninety percent turned out, and the vote was for independence from Indonesia. East Timor slipped into violence and bloodbath. A UN interim administration took command in October. In May, 2002 East Timor became independent. Aceh and Irian Java are two provinces with long-running separatist movements.

Economy: One of the world's richest countries in natural resources, Indonesia has vast supplies of tin, oil and fairly big deposits of bauxite, copper, nickel, gold and silver. Agriculture is the main occupation of the people. Crops include rice, tobacco, coffee, rubber, cassava, maize, pepper, kapok, coconut, palm oil, tea and sugarcane. Forest products are a major source of foreign exchange. Food processing, textiles, paper, cement, automobile & cycle assembly works and chemicals factories have developed. With a foreign debt in excess of \$135 b., Indonesia is one of the largest debtor countries of the world.

Recent Events: In January 2006, an East Timorese report accused Indonesia of widespread atrocities during its 24-year occupation, holding it responsible for the deaths of more than 1,00,000 people. In February-March, deadly protests at a major US-owned gold and copper mine in Papua province followed attempts to remove illegal prospectors from the site. In May, a powerful earth-quake killed thousands of people on the island of Java. In July, a tsunami, triggered by a large undersea earthquake, killed more than 500 people on the island of Java.

Mission in India: Embassy of the Republic of Indonesia, Kautilya Marg, 50-A, Chanakyapuri, New Delhi- 110021. Tel: 26118642-45; Fax: 26874402, 26886763, 26888279 (Visa), 26885460 (comm).

E-mail: iembassy@giasd101.vsnl.net.in Consulate General of the Republic of Indonesia: 19, Altamount Road, Cumballa Hill, Mumbai-400 026; Ph: 91-22-23868678, 23800940; E-mail: kjrimumb@bom3. vsnl.net.in

Indian Mission in Indonesia: Embassy of India, S-1, Jalan H.R. Rasuna Said, Kuningan, Jakarta Selatan 12950, Indonesia. Tel: 00-62-21-5204150, 5204152, 5204157; Fax: 00-62-21-5204160.

E-mail: meoijkt@indo.net.id/ eolisi@ indo.net.id

80. Iran

(Islamic Republic of Iran) Jomhori-e-Islamie-Iran



Capital: Teheran; Other Large Cities: Esfahan,

Mashad; Area: 1,648,000 sq.km; Population: 68,688,433; Languages; Persian (Farsi), Turk. Kurdish, Arabic; Religions: Shi'a Muslim-89%, Sunni Muslim-9%, Zoroastrian, Jewish, Christian and Baha'i-2%; Literacy: 79.4%; Life Ex-Currency: pectancy: 70.26: (\$1=9166.50); p.c.i; \$ 8,300; Date of Independence: 1st April, 1979.

Government Type: Islamic Republic; President: Mahmud Ahmadi-Nejad.

History: Iran, formerly Persia, lies between Caspian Sea and the Persian Gulf and consists of a central plateau surrounded by mountains. A popular revolution of Islamic character swept the long-ruling Shah Mohammed Reza Pahlavi from power and installed a strict clerical leadership under Ayatollah Ruhollah Khomeini, spiritual leader of the Shia Muslim community. An Islamic Republic was proclaimed on April 1, 1979.

Iran is a country of great antiquity, celebrated alike for its culture and military valour.

Economy: Agriculture employs 30% of the labour force. The chief products are wheat, barley, rice, fruits (largest producer of dates), wool and sugar beets. Iran is one of the biggest oil-producing regions in the Middle East, It owns 7.5% of total world oil reserves and 15% of global gas deposits. Emeralds and other gems are found in Khorassan and Kerman. Persian carpets, made on handlooms are famous. Other industries: Textiles, cement, processed foods, steel and copper fabrication.

Recent Events: In January 2006, Iran broke IAEA seals at its Natanz nuclear research facility. In February, IAEA voted to report Iran to the UN Security Council over its nuclear activities. Iran resumed uranium enrichment at Natanz. In March, earthquakes killed scores of people and rendered thousands homeless in Lorestan province. In April, Iran claimed it had succeeded in enriching uranium at its Natanz facility.

Mission In India: Embassy of the Islamic

Republic of Iran, No. 5, Barakhamba Road, New Delhi-110001. Tel: 23329600-02; Fax: 23325493, 23713704 (Armed Forces).

E-mail:iranemin@vsnl.com

Consulate General of The Islamic Republic of Iran: "Swapnalok", First Floor, 47, Nepean Sea Road, Mumbai-400 026; Ph: 3630073. 3631029

Indian Mission in Iran: Embassy of India, 46, Mir-Emad, Corner of 9th Street, Dr. Beheshti Avenue, P.O. Box No. 15875-4118, Tehran (Islamic Republic of Iran), Tel: 00-98-21-87551034/5; Fax: 00-98-21-8755973, 8745557.

E-mail:indemteh@dpi.net.ir

81. Iraq

(Republic of Iraq) at Jumhoriya at 'Iraqia



Capital: Baghdad: Other Large Cities: Basra, Mosul; Area: 438,446 sq.km; Population: 26,783,383; Languages: Arabic (official) and Kurdish; Religions: Muslim-97% (Shi'a-60-65%, Sunni-32-37%), Christian and others-3%; Literacy: 40.4%; Life Expectancy: 69.01; Currency: New Iraqi Dinar (\$1=1469.6); p.c.l: \$ 3,400; Date of Independence: 3rd October, 1932.

Government Type: Transitional Government; GovL:The country is under U.S. trol; President: Jalal Talabani; P.M. Maliki.

History: Ira-in the kinddle Fact its

from Gaza Strip and Jericho. On Sept. 13, the historic accord between PLO and Israel was signed in Washington for limited Palestinian self-rule in Gaza and West Bank. Israel and Jordan signed (July, '94) a declaration ending 46-year state of war. Israeli-PLO agreement of Aug. '95 expanded Palestinian self-rule in West Bank.

Under an accord of Oct. '98, Israel yielded more West Bank territory to Palestinians in exchange for new security guarantees. In June 1999, Israel announced plans to extend Jerusalem municipal authority over nearby Jewish settlements in the West Bank. Palestinians called it a 'de facto annexation'. In Sept. Israel and Palestinians signed an agreement providing for the implementation of the Wye Memorandum.

On May 25, 2003 Israeli cabinet approved plan for a Palestinian state by 2005 as per the US-backed peace 'road map' Strong disagreement arose in July between Israel and Palestinian Authority over the number of Palestinian prisoners Israel was prepared to release. Israel went ahead with building the controversial security fence that divides Israel and Palestinian areas. Hamas leader Abu Shanab was killed by Israel. Hope for the road map was shattered. In Set., Israel said it was prepared to 'remove' Arafat.

Israel has developed both agriculture and Industry in the little land allotted to it with considerable expertise and efficiency. They have literally made the deserts bloom. Kibbutzim (collective cultivation), irrigation schemes and reclamation of desert-land formed the main feature of agricultural development. Citrus fruits are the main exports. Wine-making is an extensive industry. In diamond-cutting, Israel comes next only to Belgium. Other industries are textiles, electronics, machinery, processed foods and chemicals.

Gaza Strip: Area-363 sq.km; Pop-1,054,200. Agreements between Israel and PLO in 1993 and '94 provided for interim selfrule in Gaza. Israel is in control of security, while Palestinian Authority is responsible for civil govt. Most inhabitants are Palestinian Arabs.

West Bank: Area- 5,879 sq. km; Pop.-1,557,000. Palestinian Authority administers several major cities, but Israel retains control over much land. In '94, Jericho was given to Palestinian control. Self-rule was expanded in '95. In '97 there was agreement on partial pullout from Hebron.

Recent Events: The centrist Kadima party won a slim majority in elections in March 2006. Israel waged a weeks-long military campaign against Hezbollah guerrillas in Lebanon. Political opponents alleged shortcomings in the conduct of the war. The Prime Minister said the offensive had destroyed much of Hezbollah's weaponry and infrastructure.

Mission in India: Embassy of Israel, 3, Aurangzeb Road, New Delhi-110 011; Tel: 201 3238; Fax: 2301 4298.

E-mail: israelem@vsnl.com

Indian Mission in Israel: Embassy of India, 4, Kaufman Street, Sharbat House, Post Box No. 50095, Tel Aviv 68012, Israel. Tel: 00-972-3-5101431; Fax: 00-972-3-5101434.

E-mail:indemtel@netvision.net.il

84. Italy

(Italian Republic) Republica Italiana



Capital: Rome; Other Large Cities: Milan, Naples, Turin, Florence; Area: 301,278

sq.km.; Population: 58,133,509; Languages: Italian; Religions: Roman Catholic; Literacy: 98.6%; Life Expectancy: 79.81; Currency: Euro (\$1=0.791); p.c.i: \$ 29,200; Date of Independence: 17th March, 1861.

Government Type: Republic; President: Giorgio Napolitano; PM: Romano Prodi.

History: The Italian Republic occupies the long peninsular area in Europe shaped like a boot extending from the Alps into the Mediterranean Sea. The islands of Sicily (off the toe of the boot), Sardinia, Elba and Capri in the Mediterranean belong to Italy.

Mount Etna, an active volcano, rises to 3,274 m. Italy's largest northern lakes are Garda, Maggiore and Como. The main river is the Po.

Italy, once the headquarters of the great Roman Empire, disintegrated into many petty states during the latter Middle Ages. Modern Italy began to develop when King Victor Emmanuel II of Savioa became ruler.

On April 28, 1945 Benito Mussolini, the Fascist dictator, was put to death. Consequent on a referendum on June 2, 1946, Italy voted for a Republic. The king laid down his kingship. Italy is a member of the European Union.

Economy: Since World War II, Italy has revolutionised agricultural production. The chief crops are grapes, wheat, sugarbeet, fruits and vegetables. Italy is among the highly industrialised countries of the world, main products being steel, machinery, electrical, mechanical and electronic gadgets, automobiles, chemicals, cement, textiles and shoes. Italy is world's largest jewellery maker. Tourism is an important source of revenue, providing employment and an influx of foreign currency.

In economic terms, the country's great strength has been in manufacturing. It does have some large multinational companies, notably Fiat (cars) and Olivetti (telecommunications), but manufacturing is dominated by networks of thousands of small firms,

chiefly in clothing, furniture, kitchen equipment, and white goods such as refrigerators and cookers.

Rome celebrated its 2753rd birthday in May, 2000. The colosseum was reopened for public show in July, 2000.

Recent Events: In April 2006, Centre-left leader Romano Prodi won closely-fought general elections. Italy's most-wanted man, suspected head of the Sicilian mafia Bernardo Provenzano, was captured by police. In June, National referendum rejected constitutional reforms intended to boost the powers of the prime minister and regions. Italy won the 2006 FIFA world Cup soccer tournament beating France

Mission in India: Embassy of Italy, 50-E, Chandragupta Marg, Chanakyapuri, New Delhi-110021. Tel: 26114355, 26114359, 26114353; Telefax: 26873889.

E-mail:italemb@de13.vsnl.net.in

Indian Mission in Italy: Embassy of India, Via XX Settembre, 5, 00187, Rome, Italy. Tel: 00-39-06-4884642 to 45; Fax: 00-39-06-4819539.

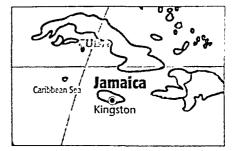
E-mail:ind.emb@flashnet.it

Ivory Coast

(See under Cote D'Ivoire)

85. Jamaica

Capital: Kingston; Area: 11,425 sq.km; Population: 2,758,124; Languages: English and



lence: 6th August, 1962.

amaican Creole; Religions: Protestant-61.3%, Roman Catholic-4%, others including some piritual cults-34.7%; Literacy: 87.95%; Life Expectancy: 73.24; Currency: Dollar \$1=66.946); p.c.i: \$4,400; Date of Indepen-

Government Type: Constitutional Parlianentary Democracy; Gov.Gen.: Kenneth O. Hall: PM: Portia Simpson-Miller.

Jamaica, an island in the Greater Antilles group of the West Indies, is situated in the Caribbean Sea, 144 km south of Cuba.

History: Jamaica was visited by Columbus in 1494 and ruled by Spain till 1655 when Britain occupied it. On August 6, 1962 Jamaica became fully independent and a member of the Commonwealth. About 75% of the population is of African ethnic origin.

Economy: Agriculture, mining and tourism form the backbone of the economy. The dominant crop is sugar, with molasses and rum as important by-products. Bananas, citrus fruits and coconuts are also grown. Jamaica is the world's second largest producer of bauxite and alumina. Other industries are cement, tobacco, consumer goods and tourism.

Mission in India: Embassy of Jamaica stationed at Ottawa

Indian Mission in Jamaica: High Commission of India, 4, Retreat Avenue, P.O. Box No. 446, Kingston-6, Jamaica. Tel: 00-1-876-9273114, 9274270; Fax: 00-1-876-978280, 97803591.

E-mail:hicomindkin@cwjamaica.com

86. Japan

(Nippon)

Capital: Tokyo; Other Large Cities: Yokohama, Osaka, Sapporo, Kyoto, Hiroshima; Area: 377,765 sq.km; Population: 127,463,611; Languages: Japanese; Religions: Shinto and Buddhism-84%, others-16% (including Christian-0.7%); Literacy: 99%; Life Expectancy: 81.25; Currency: Yen (\$1=114.96); p.c.i: \$

31,500; Date of Independence: 660 B.C.

Government Type: Parliamentary Democracy; Head of State: Emperor Akihito; PM: Junichiro Koizumi.

History: Japan, an archipelago off E. coast of Asia, consists of four main islands, Honshu (Mainland), Hokkaido, Kyushu and Shikoku and a number of smaller islands of which Okinawa is one, Japan has a deeply indented coastline measuring 26,600 km. Main ports are Yokohama, Kobe, Nagoya and Osaka. There are about 60 more or less active volcanoes of which the best known is Mount Aso. The famous Mount Fuji is not active, Legend has it that the Japanese Empire was founded by Emperor Jimmu in 660 B.C. In A.D. 1868 Emperor Meiji united the whole of Japan under his rule. Japan had little trade relations with foreign countries until 1871 when it entered into a trade treaty with USA. After the feudal system was abolished, westernisation set in. In 1952, Japan regained its sovereignty. Japan's victory in the Russo-Japanese War of 1904-05 raised her prestige among European powers.

Economy: Rice, the staple food of Japan, is cultivated in half the area of arable land. Other crops are wheat, barley, potatoes and tobacco. Except for limestone and sulphur, Japan is poor in minerals and Japanese industry is heavily dependent on imported raw materials and fuel. Japan, one of the most industrially advanced countries of the world,



is a leader in technology and the world's second richest country. The principal industries are automobiles, iron and steel, chemicals, textiles (cotton, wool, silk and synthetics). fishing, ceramics, precision instruments, fertilisers, machinery and shipbuilding. Japan has evolved an extensive fishing industry.

Japanese women have been the world's longest lived since 1985 and Japanese men since 1986.

In April, 1997 Japanese cabinet approved a bill allowing U.S bases to continue to use land in Okinawa, a key military foothold in East Asia.

Recent Events: Japan and China failed to reach a breakthrough at talks in Beijing over the issue of who control oil and gas reserves in disputed areas of the East China Sea.

Mission in India: Embassy of Japan, 50-G Shantipath, Chanakyapuri, New Delhi - 110 021, Tel: 26876581, 26876564; Fax: 26885587.

E-mail: jpprocol@nda.vsnl.net.in Web: www.japan-emb.org.in

Cultural & Information Centre, 32-Ferozeshah Road, New Delhi-110 001. Tel:3329803; Fax:371-2124

Indian Mission in Japan: Embassy of India, 2-2-11, Kudan-Minami, Chiyoda-ku, Tokyo-102, Japan. Tel: 00-81-3-32622391to 97; Fax: 00-81-3-32344866.

E-mail:indembjp@gol.com.

87. Jordan

(Hashemite Kingdom of Jordan) al Mamlaka al Urduniya al Hashemiyah

Capital: Amman; Other Large Cities: Zarka, Irbid, Salt; Area: 89,287 sq.km; Population: 5,906,760; Languages: Arabic and English; Religions: Sunny Muslim-92%, Christian-6%, others-2%; Literacy: 91.3%; Life Expectancy: 78.4; Currency: Dinar (\$1 =0.708); p.c.i: \$ 4,700; Date of Independence: 25th May, 1946.

Government Type: Constitutional Monarchy; Head of State: King Abdullah II; PM: Marouf Suleiman Bakhit.

History: A constitutional monarchy in south-west Asia, Jordan was popularly known as Trans-Jordan till 1949, when the popular name was changed to the Hashemite Kingdom of Jordan. The population is chiefly Arab of whom the majority are Muslims. In 1946, Jordan was proclaimed an independent kingdom.

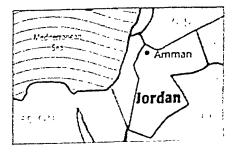
Economy: Jordan is largely desert but the western portion is fertile and produces citrus fruits, wheat, barley, lentils and water melons. Phosphate and potash make up the country's most important export item, but tourism remains its main foreign exchange earner.

Economic growth was remarkable during 1977-'82, described as the 'boom years'. School enrollment is currently one of the highest among developing countries - 94% for basic education. Almost 99% of the population have access to electricity and safe water. Industry accounts for 26% of GDP, agriculture 4%, and services sector 70%.

Textiles, cement, food-processing, petroleum products, iron and fertiliser are major industries.

On July 25, 1994, Israel and Jordan signed a joint declaration in Washington, ending 46 years of hostility.

Recent Events: Jordan was caught in the middle of hostility between Iraq and USA. Much of its oil comes from Iraq. USA is its largest donor.



Mission in India: Embassy of the Hashemite Kingdom of Jordan, 30, Golf Links, New Delhi-110 003; Tel:24653318, 24653099; Fax: 24653353.

E-mail: jordemb@ndf.vsnl.net.in

Indian Mission in Jordan: Embassy of India, Post Box 2168, 1st Circle, Amman-11181, Jordan. Tel: 00-962-6-4622098, 4637262; Fax: 00-962-6-4659540.

E-mail:indembjp@firstnet.com.jo

88. Kazakhstan

(Republic of Kazakhstan) Kazak Respubli-kasy



Capital: Astana (also known as Akmola); Other Large Cities: Karaganda, Chimkent; Area: 2,717,300 sq.km; Population: 15,233,244; Languages: Kazakh, Russian, German; Religions: Muslim-47%, Russian orthodox-44%, Protestant-2%, others-7%; Literacy: 98.4%; Life Expectancy: 66.89; Currency: Tenge (\$1=119.825); p.c.l: \$ 8,200; Date of Independence: 16th December, 1991.

Government Type: Republic; President: Nurusltan A. Nazarbayev; PM: Daniyal Akhmetov.

History: A former Soviet Republic which declared independence on December 16, 1991, Kazakhstan stretches from the Chinese border to the Caspian Sea and is bounded by Russia, Uzbekistan and Kyrgyzstan.

The second largest former Soviet Republic is an ethnically diverse country whose popula-

tion includes over hundred nationalities. About 60% of the people live in urbateress. Half of the population is Russian of Ukrainian working on farms and in industries.

Economy: Agriculture: Grain, sugar bee potatoes, vegetables, meat, milk, eggs, co ton. Noted for its sheep from which hig quality wool is obtained.

Natural resources: Half of former Sovie Union's total deposits of copper, lead an zincare in Kazakhstan. Other minerals: coa tungsten, oil, nickel, chromium, molybde num, manganese. Kazakhistan has the second largest oil field in the world in Kasagar and sits on an estimated 3 billion tonnes oil and 2 trillion tonnes of gas.

Industry: Iron ore, sulphuric acid, agricu tural machinery, ferroconcrete, knitwea footwear, hosiery. Among former Sovie Union's industrial republics, Kazakhstan hathe third place.

In July, '98 Kazakhstan and Russia signe a pact of 'eternal friendship and cooperation which provides for mutual military assistanc in case of outside agression against either. I Jan. '99, President Nazarbayev was re-electe

for another 7-year term.

Recent Events: In January 2006, oppositio leader Galymzhan Zhakiyanov returned hom to Almaty from internal exile after being released on parole. In February, opposition fig.

ure Altynbek Sarsenbaiuly, his bodyguard an driver were shot dead outside Almaty.

Mission in India: Embassy of the Republi

of Kazakhstan, 4, Olof Palme Marg, Vasar Vihar, New Delhi-110 057; Tel: 26144779 26147983; Telefax: 26144778.

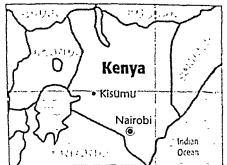
E-mail:embaskaz@giasd101.vsnl.net.in

Indian Mission in Kazakhstan: Embassy o India, Ulitsa Maulenova 71, Almaty-480091 Kazakhstan. Tel: 00-703272-921411 694746; Fax: 00-7-3272-92667.

E-mail:india@in.emb.almaty.kz / char cery@ indembasy.almaty.kz

89. Kenya

(Republic of Kenya) Jamhuriya Kenya



Capital: Nairobi; Other Large Cities: Mombasa, Kisumu; Area: 582,646 sq.km; Population: 34,707,817; Languages: Kiswahili, English, Kikuyu and several other local languages; Religions: Protestant-45%, Roman Catholic-33%, Indigenous beliefs-10%, Muslim-10%, others-2%; Literacy: 85.1%; Life Expectancy: 49.78; Currency: Shilling (\$1=73.65); p.c.i: \$ 1,100; Date of Independence: 12th December, 1963.

Government Type: Republic; President & PM: Mwai Kibaki.

History: Formerly a British colony, Kenya in East Central Africa became independent on December 12, 1963(four years after the end of the violent Mau Mau uprising), and a Republic within the Commonwealth on December 12, 1964.

Economy: Kenya's prosperity rests largely on agricultural products. The chief cash crops are coffee, tea, sisal, cereals, wattle and pyrethrum. Kenya has a significant dairy industry. Mineral industries are being organised. Other industries include textiles, consumer goods and processed foods. Major exports are tea, coffee, horticulture, petroleum products and cement. Imports include crude petroleum, industrial machinery, iron and steel and drugs. Tourism has expanded considerably. Large game reserves have been developed.

Tribal clashes in the western provinces claimed thousands of lives in early 1990s. Widespread unemployment and inflation were major problems in the first half of the decade.

The year 1997 witnessed pro-democracy clashes in the worst political violence since 1991, against Arap Moi's leadership. In Jan. '98, Arap Moi was sworn in for a final (fifth) five-year term as President.

On August 7, a devastating bomb explosion near the US embassy in Nairobi killed 200 people and injured 4000 others.

Recent Events: In January-February 2006, government ministers were linked to a corruption scandal involving contracts for a phantom company. One of them, Finance Minister David Mwiraria, resigned and said allegations against him were false. In March, armed police, acting on government orders, raided the offices and presses of the Standard group, one of Kenya's leading media companies. In April, visiting Chinese president Hu lintao signed a contract allowing China to prospect for oil off the Kenyan coast.

Mission in India: High Commission of Kenya, 34, Paschimi Marg, Vasant Vihar, New Delhi - 110 057. Tel: 2614 6537/38, 26146540: Fax: 91-11-26146550.

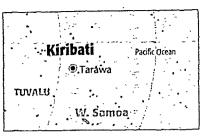
E-mail:kenredel@ndf.vsnl.net.in

Indian Mission in Kenya: High Commission of India, Jeewan Bharati Building, Harambee Avenue, P.O. Box 30074, Nairobi, Kenya. Tel: 00-254-2-222566,222567, 224500, 225180, Fax: 00-254-2-334167, 751644(R).

E-mail:comsechcinbo@form-net.com / hcinfo@iconnect.co.ke

90. Kiribati

(Republic of Kiribati) Ribaberikin Kiribati Capital: Tarawa; Area: 861 sq. km; Population: 105,432; Languages: Gilbertese and English; Religions: Roman Catholic-52%, Protestant (congregational)-40%; Life Expectancy: 62.08; Currency: Australian Dollar (115)... \$1 = \$1.35446); p.c.i: \$ 80 pendence: 12th July, 1979.



Government Type: Republic: Head of State and Govt.: Anote Tong.

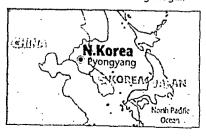
History: Gilbert islands, till recently a British colony, became independent under the name Kiribati (pronounced Kiribas) in July,

1979. Economy: These islands, spread over a vast area in South West Pacific, number around 33. All islands except Ocean Island (Banaba) are low atolis with coconuts, pandanus and bread fruit forming the main vegetation. The population is Micronesian and Polynesian. Agriculture and fishing are the main occupations. Ocean Island has high grade phosphate deposits which are being mined and exported. Copra is the other major export item.

Recent Events: In March 2006, Kiribati distinguished itself on the global conservation map with the declaration that it was creating the third largest marine protected area in the world, conserving an archipelago of some of the planet's most pristine coral reefs

91. Korea (North)

(Democratic People's Republic of Korea) Chosun Minchuchui Inmin Konghwaguk



Capital: Pyongyang; Other Large Cities: Hamhung, Chongjin; Area: 120,538 sq.km; Population: 23,113,019; Languages: Korean; Religions: Traditionally Buddhist and Confucianist, some Christian and syncretic Chondogyo (Religion of the Heavenly Way); Literacy: 99%: Life Expectancy: 71.65; Currency: Won (KPW) (\$1 = 142.45); p.c.i: \$ 1.000: Date of Independence: 15th August, 1945.

Government Type: Communist State; President: Marshal Kim Jong II; PM: Pak Pong lu.

The Democratic People's Republic of Korea occupies the northern part of the Korean peninsula.

History: During the Second World War, America occupied South Korea, and Russia North Korea, At the Potsdam Conference, the 38th parallel of latitude was recognised as the line of division between the occupation areas of Russia and America. South Koreans formed the Republic of Korea in May, 1948. North Korea was formed into the Democratic People's Republic of Korea on Sept. 9, 1948. North Korean army attacked S. Korea in June, 1950, initiating the Korean War. U.S. and other western nations, with U.N. backing, supported the south. China sent an army across the border. The war ended in an armistice (July 1953) leaving Korea divided by a 'no-man's land' along the 38th parallel. Kim ll Sung, who ruled Korea since 1948 died in July, 1994.

Economy: All industries are nationalised. Agriculture is collectivised. Chief crops: rice, maize, potatoes. Industrial development has concentrated on heavy industry, electricity, metallurgy, machinery and chemicals. The country is rich in coal and iron and many nonferrous metals and hydro-electric power. It is one of the five leading countries of the world in the production of tungsten, graphite and magnetite.

Several proposals for talks between North

and South Korea on reunification, have been made since 1980, but have repeatedly bro-ken down.

The two Koreas agreed in 2000 to reconnect a rail link and to reopen border liaison offices. An accord was signed to reunite relatives separated by the division of the peninsula.

Recent Events: • In February 2006, highlevel talks with Japan, the first since 2003, failed to yield agreement on key issues, including the fate of Japanese citizens abducted by North Korea. In July, North Korea test-fired a long-range missile, and some mediumrange ones, to an international outcry.

Mission in India: Embassy of the Democratic People's Republic of Korea, D-14, Maharani Bagh, New Delhi - 110 065. Tel: 26829644, Telefax: 26829645.

Indian Mission in Korea (Democratic People's Republic): Embassy of India, 6, Munsudong, Taehek Street, District Daed-onggang, Pyongyang, DPR Korea. Tel: 00-850-2-3817274, 3817215; Fax: 00-850-2-3817619.

92. Korea (South)

(Republic of Korea) Taehan Min'guk Capital: Seoul; Other Large Cities: Pusan,



Inchon; Area: 98,859 sq.km; Population: 48,846,823; Languages: Korean; Religions: no affiliation-46%, Christian-26%, Buddhist-26%, Confucianist-1%, others-1%; Literacy: 97.9%; Life Expectancy: 77.04; Currency: Won (\$1=966.76); p.c.i: \$ 20,400; Date of Independence: 15th August, 1945.

Government Type: Republic; President: Roh Moo-hyun; PM: Han Myeong-sook.

History: The Republic of Korea, formally proclaimed on August 15, 1948, forms the southern part of the Korean peninsula. The period 1950-53 saw the Korean War, a tragic experience for the entire Korean people.

In 1991, the prime ministers of North and South Korea signed a declaration of non-aggression and reconciliation.

Economy: Chief crops are rice, wheat, barley, potatoes and vegetables. Fish is both an export item and a source of food. There are substantial coal deposits. Other minerals include iron, tungsten, graphite and fluorite. Has made big leaps in industry - textiles, electronics, steel, petrochemicals, ships and motor vehicles. Korean construction businesses are the most prolific in the world, and the nation ranks second in ship building, receiving orders amounting to 9.75 million gross tons (GT) for 208 ships in 2002.

Recent Events: In February 2006, South Korea and the US launched talks on a free trade agreement, potentially the largest free trade deal involving the US in Asia.

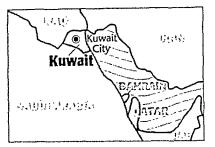
Mission in India: Embassy of the Republic of Korea, 9, Chandragupta Marg, Chanakyapuri Extn., New Delhi - 110 021. Tel: 26885412/19, 26885374-76; Fax: 26884840.

E-mail: embkorea@vsnl.com

Indian Mission in Korea (Republic of): Embassy of India, 37-3, Hannam-dong, Yongsanku, C.P.O. Box 3466, Seoul. Tel: 00-82-2-798 4257/7984268; Fax: 00-82-2-7969534, 7909938(R).

93. Kuwait

(State of Kuwait) Dowlat al-Kuwait Capital: Kuwait City; Other Large Cities: Hawalli, as-Salimiya; Area: 17,818 sq.km; Population: 2,418,393; Languages: Arabic and English; Religions: Islam; Literacy: 83.5%;



Life Expectancy: 77.2; Currency: Kuwait Dinar (\$1=0.289); p.c.i: \$ 19,200; Date of Independence: 19th June 1961.

Government Type: Constitutional Monarchy; President: Amir Sabah al-Ahmed al-Jabir al-Sabah; PM: Nasir al-Muhammed al-Ahmad al Sabah.

History: Kuwait, a small Arab state, is on the north western coast of the Persian Gulf between Iraq and Saudi Arabia. There are 9 islands off the coast of Kuwait. Rate of growth of population is 3.33%. More than 125 nationalities live in Kuwait.

One of the richest oil nations of the world, Kuwait was traditionally under the rule of the Al-Sabah dynasty founded in 1756, Became independent state on June 19, 1961.

Economy: Kuwait is a small, relatively open economy with proved crude oil reserves of about 96 billion barrels - 10% of world reserves. Petroleum accounts for nearly half of GDP, 95% of export revenue, and 80% of government income. Kuwait's climate limits agricultural development. Consequently with the exception of fish, it depends almost wholly on food imports. Other products: fertilisers, chemicals, building materials, shrimp. Only one percent land is cultivated.

Iraq invaded and annexed Kuwait on August 2, 1990. However they were beaten back by a united force under the U.N.

In May, '99, Kuwait moved further towards democracy with women given right to vote and run for parliament.

Recent Events: In April 2006, women cast

their votes for the first time, in a municipal byelection. In June, women failed to win any seats in their first attempt to compete in parliamentary elections. The opposition - a loose alliance of reformists, liberals and Islamists - made gains, winning nearly two-thirds of the seats.

Mission in India: Embassy of the State of Kuwait, 5-A, Shantipath, Chanakyapuri, New Delhi - 110021, Tel: 24100791; Fax: 26873516

Recent Events: Kuwait appointed a woman-Massouma al-Mubarak-as Planning Minister, the first woman minister in the country.

Indian Mission in Kuwait: Embassy of India, Diplomatic Enclave, Arabian Gulf Street, P.O. Box.No. 1450-Safat, 13015-Safat, Kuwait. Tel: 00-965-2530600, 2540612/13, ; Fax: 00-965-2525811, 2571192.

E-mail:indemb@ncc.moc.kw

Website: www2.kems.net/users/indemb/ index htm

94. Kyrgyzstan

(Republic of Kyrgyzstan) Kyrgyz Respubli-kasy



Capital: Bishkek; Area: 198,500 sq.km; Population: 5,213,898; Languages: Kirghyz, Russian; Religions: Muslim-75%, Russian Orthodox-20%, others-5%; Literacy: 98.7%; Life Expectancy: 68.49; Currency: Som (\$1=40.29); p.c.i: \$ 2,100; Date of Independence: 31st August, 1991.

Government Type: Republic; President: Kurmanbek Bakiyev; PM: Feliks Kulov.

History: A former Soviet Republic that beame independent in December, 1991. lyrgyzstan is situated on the Tien-Shan nountains. It has China, Kazakhstan. Ubekistan and Tadzhikistan as neighbours.

Economy: Agriculture: Kyrgyzstan is famed for itslivestock breeding. Bee-keeping is well-developid. Products: Grain, cotton, potatoes, vegetalles, fruit, meat, milk, eggs, wool, tobacco.

industry: Sugar, food, cotton, wool, tanning, flour mills, tobacco, timber, textile, engintering, metallurgy, oil and mining.

Recent Events: In January 2006, wrestler, Raatbek Sanatbayev, a candidate for the presidency of the Kyrgyz olympic committee, was shot dead. The post became vacant when the previous holder, Bayaman Erkinbayer, also died violently. In February, parliament speaker Omurbek Tekebayev resigned after row with president Bakiev.

Mission in India: Embassy of the Kyrgyz Republic, C-93, Anand Niketan, New Delhi-110021; Tel: 24108008; Fax: 24108009.

E-mail: alatoo@starith.net.

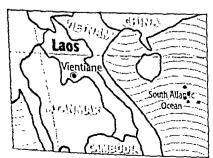
Web: kyrgyzembassyindia.org

Indian Mission in Kyrgyzstan: Embassy of India, 164-A, Chui (Prospect), Bishkek-720001, Kyrgyzstan. Tel: 00-996-312-210863; Fax: 00-996-312-660708, 210849

E-mail:india@elcat.kg / fs@elcat.kg

95. Laos

(Lao People's Democratic Republic) Sathalanalat Paxathipatai Paxaxon Lao



Capital: Vientiane; Other Large Cities: Savannakhet, Pakse; Area: 236,800 sq.km; Population: 6,368,481; Languages: Lao, Tribal, English, French; Religions: Buddhist-60%, animist and others-40%; Literacy: 66.4%; Life Expectancy: 55.49; Currency: New Kip (\$ 1≈101,01); p.c.i: \$ 1,900; Date of Independence: 19th July, 1949.

Government Type: Communist State: President: Lt.Gen. Choummali Saignason: PM: Bouasone Bouphavanh

History: Laos-Lao People's Democratic Republic - occupies a strategic position in south east Asia. A French protectorate since 1893, Laos became an independent sovereign state within the French Union in 1949. Conflicts among neutralist, communist and conservative factions created a chaotic political situation. On Dec. 2, 1975 the republic was proclaimed.

In the 1980s, Vietnamese aid - military and financial - was the chief support. Since 1988, investment from Thailand and USA has been substantial. In 1997, Laos was admitted to ASEAN.

Economy: The chief products are rice, maize, tobacco, cotton. Major industrial products: Tin, timber, textiles.

Mission in India: Embassy of the Lao P.D.R., A 104/7 Parmanand Estate, Maharani Bagh, New Delhi-110 065; Tel:26933320; Fax:26323048.

E-mail: amlaodl@ndb.vsnl.net.in

Indian Mission in Lao P.D.R.: Embassy of India, Rue That Luang, P.O. Box No. 225. Vientiane, Laos PDR. Tel: 00-856-21-413802. 413804, 416850/51; Fax: 00-856-21-412768. E-mail:indiaemb@laotel.com

96. Latvia

(Republic of Lativia) Latvijas Pepublika Capital: Riga; Other Large Cities: Dauga pils, Liepaja; Area: 63,700 sq. km; Population: 2,274,735; Languages: Latrian, Lithuanian,

Russian; Religions: Lutheran, Roman Catholic, Russian orthodox; Literacy: 99.8%; Life Expectancy: 71.33; Currency: Lats (\$1=0.660); p.c.i: \$ 13,200; Date of Independence: 21* August, 1991.

Government Type: Parliamentary Democracy; Head of State: Mrs. Vaira Vike-Freiberga; PM: Aigars Kalvitis.

History: Latvia has the Baltic sea on the north and west. Neighbours are Estonia, Lithuania, Byelorussia and Russia. Latvia seceded from Soviet Union and attained independence in August, 1991, after having attempted to establish independence in 1990.

Latvia continues a pro-western foreign policy; It was largely cut off from the western world during 50 years of Soviet rule.

In June '99, Mrs. Vaira was elected President, the first democratically elected woman President of a central or east European country.

Economy: Urbanisation has changed the face of this predominantly agricultural country. Crops: oats, barley, rye, potatoes, flax, sugarbeet, meat, milk and eggs. Cattle breeding and dairy farming are chief occupations. Natural resources: peat, briquettes and gypsum. Industry: Electric railway passenger cars and long-distance telephone exchanges (the main producer of these in former Soviet Union), paper and woollen goods, sawn timber, mineral fertilisers, hosiery, garments, leather footwear, chemical fibre, buses and radio receivers.

Recent Events: Joined EU in 2004.

Mission In India: Hon. Consulate General

of Republic of Latvia, 48/11, Malcha Marg, Chanakyapuri, New Delhi-110 021. Tel: 2112931; Telefax: 26113753.

97. Lebanon

(Republic of Lebanon) al-Jumhouriya al-Lubnaniya



Capital: Beirut; Other Large Cities: Sidon, Tyre; Area: 10,400 sq.km; Population: 3,874,050; Languages: Arabic, French & English; Religions: Muslim-59.7% (Including Shi'a, Sunni, Druze, Isma'ilite, Alawite or Nusayri), Christian-39% (including Orthodox Christian, Catholic, Protestant), Jewish; Literacy: 87.4%; Life Expectancy: 72.88; Currency: Pound (\$1=1,504); p.c.i: \$ 6,200; Date of Independence: 22nd November, 1943.

Government Type: Republic; President: Emile Lahoud; PM: Fuad Siniora.

History: The Republic of Lebanon occupies a strip of land along the Mediterranean coast between Syria and Israel. Lebanon became independent in 1941.

According to constitutional conventions, the Maronite Christians and Sunni Muslims shared power. However, because of the 16-year-old civil war between the Christians (30%) and Muslims (70%) there has been no stable administration. Terrorist bombings were common in 1983; so was kidnapping of foreign nationals by Islamic militants in the 1980s.

In October 1990, Christian army led by Gen. Michel Aoun was defeated by the Syrian-backed militia supporting president Elias Hrawi, who was installed in power by all Arab consensus. In the civil war, above 125,000 people are feared dead. A Syria-Lebanon treaty of 1991 recognised Lebanon as a separate independent state.

Syria, which has 30,000 troops in Lebanon, dominates this country militarily and politically. Israeli troops in southern Lebanon began evacuating outposts there in May, 2000.

Economy: Primarily an agricultural country, Lebanon produces olive oil, grain and fruits. The chief industries are oil refining, food processing, textiles, chemicals and cement. Tourism used to be a valuable source of income.

Recent Events: In February 2006, Denmark's embassy in Beirut was torched during a demonstration against cartoons in a Danish newspaper satirising the prophet Muhammad. Israel launched air and sea attacks on targets in Lebanon after Lebanon's militant Hezbollah group captured two Israeli soldiers. Civilian casualties were high and the damage to civilian infrastructure wide-ranging. In August, thousands of Israeli ground troops thrust into southern Lebanon in an apparent expansion of their military campaign.

Mission in India: Embassy of Lebanon, 26-B, Sardar Patel Marg, Chanakyapuri, New Delhi-110021. Tel:26111919 & 26111415, Telefax: 26111818

E-mail: lebemb@vsnl.net

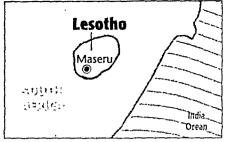
Indian Mission in Lebanon: Embassy of India, 31, Kantari Street, Sahmarani Building, P.O. Box No.113-5250 (Hamra) and 11-1764, Beirut, Lebanon. Tel: 00-961-1-373539, 372619; Fax: 00-961-1-373538.

E-mail:indermbei@dm.net.ib

98. Lesotho

(Kingdom of Lesotho)

Capital: Maseru; Area: 30,355 sq.km; Population: 2,022,331; Languages: English and



Sesotho; Religions: Christian-80%, indigenous beliefs-20%; Literacy: 84.8%; Life Expectancy: 34.4; Currency: Loti (plural Maluti) (\$1=6.84 Maluti); p.c.i: \$ 2,500; Date of Independence: 4th October, 1966.

Government Type: Parliamentary Constitutional Monarchy; Head of State: King Letsie III; PM: Pakalitha Mosisili.

History: The Kingdom of Lesotho is an enclave within the Republic of South Africa. Lesotho was a British protectorate under the name Basutoland. It became independent as Lesotho on Oct. 4, 1966. King Moshoeshoe II died in a car accident in January, 1996.

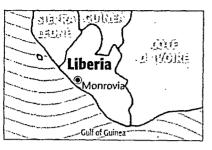
Economy: The principal occupation is agriculture. Crops: maize, grains, peas, beans. Livestock-raising is important activity. Lesotho possesses water and hydro-electric resources of great potential. Livestock, diamonds, wool and mohair are the main exports. Industry: Food processing. Most of Lesotho's GNP is provided by citizens working in S. Africa.

Mission in India: Embassy of Lesotho stationed at Beijing.

99. Liberia

(Republic of Liberia)

Capital: Monrovia; Other Large Cities: Buchanan; Area: 111,369 sq.km; Population: 3,042,004; Languages: English and tribal dialects; Religions: Indigenous beliefs-40%, Christian-40%, Muslim-20%; Literacy: 57.5%; Life Expectancy: 39.65; Currency: Liberian Dollar (\$1=54); p.c.i: \$ 1,000; Date of Independence: 26th July, 1847.



Government Type: Republic; President & PM: Ellen Johnson - Sirleaf.

History: Liberia lies on the Atlantic coast of Africa. It was founded in 1822 in order to settle freed American slaves in West Africa and declared a republic on July 26, 1847.

Economy: About 90 per cent of the population is engaged in agriculture, much of it at subsistence level. Main crops are cassava, coffee, rice, cocoa and palm oil. Iron ore and rubber are the main exports. Industry: Food processing, mining.

Civil strife that broke out in Dec. '89 tore the country apart making it the most violent country in the region. About half the population became refugees as a result of the Civil War, which claimed 150,000 lives.

In 1994, a 17-member coalition transition government was instituted. Factional fighting continued. The leaders signed about a dozen peace accords, only to resume fighting. Monrovia descended into chaos and bloodshed in 1996. Ruth Perry led a transitional government in Sept. '96, becoming modern Africa's first female head of state.

In July '97, Charles Taylor, a warlord who launched a civil war eight years ago to oust dictator Samuel Doe, won 75% of the presidential vote, and came to power, pledging to build a new country and apologising for the past bloodshed and violence.

Recent Events: In February 2006, Truth and Reconciliation commission was set up to investigate human rights abuses between 1979 and 2003. In April, former President, Charles

Taylor, appeared before a UN-backed court in Sierra Leone on charges of crime against humanity. In June the Netherlands-based International Criminal Court agreed to host his trial.

Mission In India: Honorary Consulate General. Mohan House, Zamrudpur Community Centre, Kailash Colony Extn. New Delhi-110 048. Tel: 264333135; Fax: 26460191

100. Libya

(Socialist People's Libyan Arab Jamahiriya) allamahiriyah al-Arabiya al-Libya al-Shabiya al-Ishtirakiya



Capital: Tripoli; Other Large Cities: Benghazi, Misurata; Area: 1,759,540 sq.km; Population: 5,900,754; Languages: Arabic; Religions: Sunni Muslim-97%; Literacy: 82.6%; Life Expectancy: 76.69; Currency: Libyan Dinar (\$1 =1.298); p.c.i: \$ 11,400; Date of Independence: 24th December, 1951.

Government Type: Military Dictatorship; President: Col. Muammar El-Gaddafi; PM: al-Baghdadi Ali al-Mahmudi.

History: An Arab state on the Mediterranean coast of North Africa, Libya changed its name to 'The Socialist People's Libyan Arab Jamahiriya' in 1977. 'Jamahiriya' means 'State of the masses'.

Formerly an Italian colony, Libya became an independent state in 1952. The king was deposed in 1969.

Economy: The main agricultural products

re wheat, barley, dates, olives, almond and itrus fruits. Fishing, tobacco processing, dyeng and weaving, handicrafts and petroleum are the important industries. Oil was discovered in 1957 and today Libya is one of the eading producers of oil.

Recent Events: In February 2006, at least 10 people were killed in clashes with police in Benghazi, part of a wave of international protests by Muslims who were angered by a Danish newspaper's cartoon depictions of the Prophet Muhammad. In May the US said it was restoring full diplomatic ties with Libya.

Mission in India: People's Bureau of the Great Socialist People's Libyan Arab Jamahiriya, 22, Golf Links, New Delhi -110003. Tel: 24697771, 24697717; Telefax: 24633005.

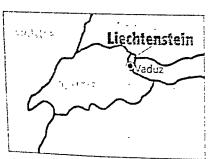
E-mail:libya@bol.net.in

Indian Mission in Libya: Embassy of India, 16/18, Shara Mamoud Shaltout, Garden City, P.O. Box 3150, Tripoli, Libya. Tel: 00-218-21-4441835-36, 4447899; Fax: 00-218-21-3337560.

E-mail:indembtrip@mail.link.net.mt/ ind embtrip@hotmail.com

101. Liechtenstein

(Principality of Liechtenstein) Furstentum Liechtenstein



Capital: Vaduz; Other Large Cities: Sachaan; Area: 160 sq.km; Population: 33,987; Languages: German; Religions: Roman Catholic-76.2%, Protestant-7%, unknown-10.6%, oth-

ers-6.2%; Literacy: 100%; Life Expectancy: 79.68; Currency: Swiss Franc (\$1=1.232); p.c.i: \$ 25,000; Date of Independence: 23 January, 1719.

Government Type: Hereditary Constitutional Monarchy; Head of State: Prince Hans Adam II; PM: Ottmar Hassler.

History: Liechtenstein is a small state on the upper Rhine, between Austria and Switzerland. It measures 24 km from north to south and 9 km from east to west. It became an independent kingdom in 1866.

Foreign workers comprise a third of the population: Many international corporations have headquarters in Liechtenstein.

The country has remained neutral and undamaged in all European wars since 1868, when the army was abolished. In 1984, male voters granted women the right to vote.

Economy: The economy is mainly industrial. Cattle-rearing is highly developed. The country's farming population has gone down from 70% to 2% in about 60 years. Chief industries are machines and tools, textiles, foodstuffs, leather-ware, chemicals, furniture and ceramics.

102. Lithuania

(Republic of Lithuania) Lietuvos Respublika



Capital: Vilnius (Vilna); Other Large Cities: Kaunas, Ylaipeda; Area: 65,200 sq.km; Population: 3,585,906; Languages: Lithuanian; Peligions: Roman Catholic (primarily), Lutheran, Russian Orthodox, Protestant, Evangelical

Christian Baptist, Muslim, Jewish; Literacy: 99.6%; Life Expectancy: 74.2; Currency: Litas (\$1=2.73); p.c.i: \$ 13,700; Date of Independence: 11th March, 1990.

Government Type: Parliamentary Democ-

racy; President: Valdas Adamkus; PM: Zigmantas Balcytis.

History: Lithuania seceded from Soviet Union and attained independence in August, 1991. Earlier in March 1990, Lithuania had

formally declared its independence but USSR defeated it by cutting off supplies and by other manoeuvres. It is bordered by Latvia, Belarus. Poland and Russia.

Russia withdrew its last soldier from Lithuania on Aug. 31, 1993.

The country, which was mainly agricultural before 1940, has been considerably industrialised since. There is a privatisation programme. By Jan. '95, 5100 former state enterprises had been sold.

Economy: Agriculture: Grain, potatoes, sugar-beet, vegetables, meat, milk and eggs. Natural resources: Forests cover 1,554,000 hectares, 70% of which consist of conifers, especially pines. Peat reserves total 4,000 m.cu. metres. Industry: Heavy engineering, ship-building, building material industries, electronic goods, chemicals, paper, leather, sugar and garments.

Mission in India: Hon. Consulate of the Republic of Lithuania, Mohan House, Zamrudpur Community Centre, Kailash Colony Extn., New Delhi-110 048. Tel: 26433135; Fax:26460191.

103. Luxembourg

(Grand Duchy of Luxembourg) Grand-Duche de Luxembourg

Capital: Luxembourg; Other Large Cities: Petange, Sanem; Area: 2586 sq. km.; Population: 474,413; Languages: French, German, English and Luxembourgish; Religions: Roman Catholic-87%, Protestants, Jews and Muslims-13%; Literacy: 100%; Life Expect-

ancy: 78.89; Currency: Euro (\$1=0.79); p.c.i: \$55,600; Date of Independence: 1839.

Government Type: Constitutional Monarchy; Head of State: Grand Duke Henri; Head of Govt.: Jean-Claude Juncker.
History: Luxembourg is a small state lying

in between Germany, Belgium and France. It is a Grand Duchy.

Its independence was confirmed by the

Treaty of London in 1867. Luxembourg is a member of the European Union.

Economy: A member of the European Eco-

nomic Community, the Benelux, the Euro-

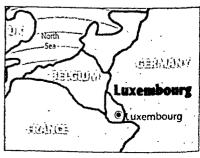
pean Steel and Coal Community and the Euratom, Luxembourg is a highly industrialised state. Its iron deposits form the basis of a big steel industry, which accounts for 70 per cent of the country's exports. Other industries: Chemicals, beer, tires, tobacco, metal products, cement. Agriculture occupies only 10 per cent of the population. Chief crops: Corn, wine and dairy products.

Recent Events: Luxembourg voted by 57% to 43% to approve the EU constitution.

Mission in India: Embassy of the Grand Duchy of Luxembourg, 730, Gadaipur Road, Branch Post Office Gadaipur, New Delhi-110030. Tel: 26801954. Fax: 26801971.

E-mail: paulsteinmetz@internet.lu

Indian Mission in Luxembourg: Honorary Consulate General of India, "Cabinet d'Avocats" Jim Penning, 31, Grand-Rue, B.P. 282, L-2012, Luxembourg. Tel: 00-352-473886; Fax: 00-352-222584.



104. Macedonia

(Former Yugoslav Republic of Macedonia) Republika Makedonija



Capital: Skopje; Other Large Cities: Bitola, Tetovo; Area: 25,713 sq. km.; Population: 2,050,554; Languages: Macedonian; Religions: Macedonian Orthodox-64.7%, other Christian-0.37%, Muslim-33.3%, others-1%; Literacy: 96.1%: Life Expectancy: 73.97: Currency: Denar (\$1 = 48.61); p.c.i: \$6,450; Date of Independence: 8th September, 1991.

Government Type: Parliamentary Democracy; President: Branko Crvenkovski; PM: Vlado Buckovski.

Ethnic breakdown: Macedonians - 65%; Albanians-22%; others (including Gypsies) -13%. A third of the population is believed to be Muslim and the rest Orthodox Christians.

History: Former Yugoslavia's poorest republic, Macedonia is land-locked and is bounded by Bulgaria, Greece, Albania and Yugoslavia. On September 8, 1991 it voted to declare independence but EC and US refused to give recognition owing to Greek objections to its use of the name Macedonia. Greeks say Macedonia's name implies territorial claims on the northern Greek province of Macedonia. Macedonia has adamantly opposed a name change. Claims to the historical Macedonian territory have long been a source of contention with Eulgaria and Greece.

Macedonia became the 181st member of the UN on April 8, 1993 under the temporary name 'the former Yugoslav republic of Macedonia', Yugoslavia and Macedonia eswhished diplomatic ties in April, 1996.

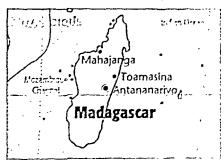
Macedonia's resources were under tremendous strain in 1999 on account of the flow of Kosovan refugees.

Economy: Agricultural products: Wheat, maize, cotton, timber, livestock. Industry: Electricity, lignite, steel, cement.

Recent Events: President Crvenkovski asked Nikolo Gruevski, leader of the centre-right VMRO-DPMNE party, to form a new government on 28 July, 2006.

105. Madagascar

(Democratic Republic of Madagascar) Repoblika Demokratika Malagasy



Capital: Antananarivo; Other Large Cities: Toamasina, Mahajanga; Area: 587,341 sq km; Population: 18,595,469; Languages: Malagasy and French; Religions: indigenous beliefs-52%, Christian-41% and Muslim-7%, Literacy: 68.9%; Life Expectancy: 57-34, Currency: Ariary (\$1 = 2173), p.c.i: \$ 900, Date of Independence: 26° June, 1960

Government Type: Republic, President: Marc Pavalomanana, PM: Jacques Sylla

History: Madagaszar, the world's fourthlargest island lies in the Indian Ocean, off the south-east roast of Africa. It was discovered in 1500 by the Portuguese Diego Diaz, became a French colony in 1896, and an Overseas Territory in 1946. In 1958, hit proclaimed the autonom public within the French C ind full independence on

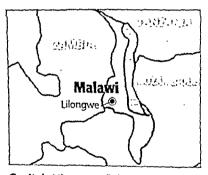
Economy: The economy is essentially agricultural. Rice is the staple food and coffee the chief export (45%). Cassava, fruits, tobacco, cloves and vanilla are also cultivated. Large herds of cattle are raised. Mineral deposits include graphite, mica, nickel and copper. World Bank reckons that half the population is malnourished. Industry: Food processing, textiles.

Indian Mission in Madagascar: Embassy of India, 4, Lalana Rajaonson Emile, Tsaralalanaa, Post Box No. 1787, Antananarivo, Madagascar. Tel: 00-261-20-2233790, 2262729; Fax: 00-261-20-233790, 222729.

E-mail:indembmd@bow.dts.mg

106. Malawi

(Republic of Malawi)



Capital: Lilongwe; Other Large Cities: Blantyre, Mzuzu; Area: 118,784 sq.km; Population: 13,013,926; Languages: English, Chichewa, Lomwe, Yao; Religions: Protestant-S5%, Roman Catholic-20%, Muslim-20%, indigenous beliefs-3%, others-2%; Literacy: 62.7%; Life Expectancy: 41.7; Currency: Kwacha (\$1=139.15); p.c.i: \$ 600; Date of Independence: 6th July, 1964.

Government Type: Republic; Head of State & Govt.(President): Bingu wa Mutharika.

History: Malawi in south-east Africa is bounded by Tanzania, Mozambique and Zambia. Lake Malawi, formerly Lake Nyasa, the third largest lake in Africa, lies on its east-

ern side. This land of lakes and mountains has infinite beauty and is considered a tourists' paradise. Malawi, formerly the British protectorate Nyasaland, (until 1907 British Central Africa) became independent in 1964 and a republic in 1966.

Dr.Hastings Kamuzu Banda's (President since 1971) autocratic system was rejected by Malawians in 1994. President Muluzi was re-elected for a final five-year term in June, '99.

Economy: Poor in resources, Malawi's agriculture is still at subsistence level. Maize is the main food crop. The chief cash crops are tea, tobacco, sugar and cotton. Industry: Textiles, sugar and cement.

Mission in India: High Commission of the Republic of Malawi stationed at Nairobi.

Honorary Consulate of the Republic of Malawi, 40, Ashoka Avenue, Sainik Farm, Khanpur Gate, New Delhi-110 062. Tel: 26518527.

E-mail: stkilachand@vsnl.net

107. Malaysia



Capital: Kuala Lumpur; Other Large Cities: Pinang, Ipoh; Area: 330,434 sq.km; Population: 24,385,858; Languages: Malay, English, Chinese, Tamil; Religions: Muslim, Buddhist, Daoist, Hindu, Christian, Sikh, Note: in addition, Shamanism is practised in east Malaysia; Literacy: 88.7%; Life Expectancy: 72.5; Currency: Ringgit (\$1 = 3.64); p.c.i: \$ 12,100; Date of Independence: 31" August, 1957.

Government Type: Constitutional Monarchy; Supreme Head of State: King Tuanku

Syed Sirajuddin Syed Putra Jamalullail; PM: Abdullah bin Ahmad Badawi

Malaysia, at the southern end of the Malay Peninsula in south-east Asia, is a federation of 13 states comprising Johor, Kedah, Kelantan, Melakaa, Negeri Sembilan, Pahang, Perak, Perlis, Pulau Pinang, Sabah, Sarawak, Selangor and Terengganu.

History: Malaysia was created in 1963. It included Malaya, which had become independent in 1957, plus the formerly-British Singapore, Sabah and Sarawak. Singapore was separated in 1965.

Economy: Natural resources are abundant. Malaysia is one of the world's largest producers of rubber, tin and palm oil. Malaysia is also the world's leading exporter of pepper and timber. Other crops are rice, coconut, vegetables, pineapples, coffee, tea, cocoa, etc.

Iron ore, gold, ilmenite and bauxite are the major mineral resources. The petroleum industry in Malaysia is becoming significantly important to the economy of the nation. Leading industries are food products, tobacco, wood products, electrical goods, textiles, chemical products, construction goods, nonmetallic products, transport equipment and the processing of agricultural products from estates (eg. rubber, palm oil). Industrialisation has been speeded up with foreign investment. P.M. Dr. Mahathir is the chief architect of the country's privatisation programme. Service contributes 48% of GDP.

'Peninsular Malaysia' comprises the 11 States of Johor, Pahang, Negeri Sembilan, Selangor, Perak, Kedah, Perlis, Kelantan, Trengganu, Penang and Melaka.

Recent Events: In April 2006, Malaysia shelved the construction of a controversial bridge to Singapore. The proposed link was the subject of a dispute between the two countries.

Mission in India: High Commission for Malaysia, 50-M, Satya Marg, Chanakyapuri, New Delhi - 110021. Tel: 26111291-93 & 26111297; Fax: 91-11-26881538.

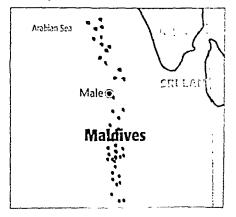
E-mail:mwndelhi@del2.vsnl.net.in

Indian Mission in Malaysia: High Commission of India, No.2, Jalan Taman Duta, Off Jlan Duta, 50480 Kuala Lumpur, (cr) P.O. Box No. 10059 G.P.O., 50704, Kuala Lumpur. Tel: 00-603-2533504, 2533509, 2533510, 2433511; Fax: 00-603-2533507, 2525826.

E-mail: hoc@po.jaring.my / dhc002@po. jaring.my/ highcomm@po.jaring.my(H.C.)

108. Maldives

(Republic of the Maldives) Divedhi Raajjeyge Jumburiya



Capital: Male, Area: 298 sq km, Population: 359,008; Languages: Divehi (Sinhalese dialect); Religions: Sunny Muslim; Literacy: 97.2%; Life Expectancy: 64 41; Currency: Rufiya (\$1=128), p.c.i: \$3,900; Date of Independence: 26" July, 1965

Government Type: Republic; Head of State & Govt (President): Maumoon Abdu' Gayoom

The Republic of Maldives lying about 675 km south-west of Sri Lanka, consists of than 1,200 small coral islands (199 man ited) grouped in 19 atolls, in the than Ocean

History: Maidries, called the 100 lands until April 1969, form elected Suitan as head of 🗯

were placed under British protection, with internal self-government, in 1887. They became a republic in January 1953 but the sultanate was restored in February 1954. Maldives became fully independent, outside the Commonwealth, on 26 July 1965. Following a referendum, the country became a republic again in November 1968, with Ibrahim Nasir, Prime Minister since 1954, as President.

In 1956 the Maldivian and British Governments agreed to the establishment of a Royal Air Force staging post on Gan, an island in the southernmost atoll, Addu. In 1975 the British Government's decision to close the base and to evacuate British forces created a large commercial and military gap. In October 1977 President Nasir rejected an offer of an annual payment of US \$ 1 m. from the USSR to lease the former base on Gan, announcing that he would not lease the island for military purposes, nor lease it to a superpower.

In 1981 the President announced plans to establish an international business complex on Gan. By 1982 two garment factories were operational, and a third was under construction. Gan airport was declared international airport in 1988.

In March 1975 President Nasir dismissed the Prime Minister, Ahmed Zaki, and the post of Prime Minister was abolished. Maumoon Abdul Gayoom, Minister of Transport became President in November 1978.

An attempted coup took place in November, 1988. It was scotched with assistance from India.

Government: Legislative power is held by the unicameral Citizens' Council (Majilis), with 48 members. The country has 20 administrative districts. There are no political parties. Maldives is divided into the capital and 19 other administrative districts, each under an appointed governor (verin) assisted by local chiefs (katheebum), who are also appointed.

Economy: Most of the country's population live on tiny coral islands in scattered atolls. These islanders are generally outside a money economy, subsisting by fishing and collecting coconuts. Arable land is minimal. Virtually all the principal staple foods have to be imported.

The islands are covered with coconut palms and yield millet, cassava, yams, melons and other tropical fruit as well as coconut produce. The main industries are fishing, tourism, shipping, reedware, lacquer-work, coconut processing and garment manufacturing. The GDP has grown at an annual rate of around 6% from 1992-93, fuelled mainly by an expansion and growth of tourism industry (an average of 10% annually) and the modernisation of the fisheries sector. Bonito ('Maldive fish') is the main export commodity and source of foreign exchange after tourism. White sandy beaches and multi-coloured coral formations are chief tourist attractions.

Mission in India: High Commission for Maldives stationed at Colombo.

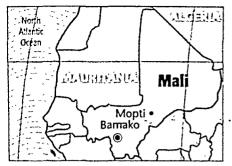
Honorary Consulate of the Republic of Maldives, 702-703, Deepali Building, 92, Nehru Place, New Delhi-110 019. Tel: +91-11 26229336; Fax: +91 11 26481352.

E-mail: ashishs78@yahoo.com Indian Mission in Maldives: High Commission of India, Athireege Aage, Ameeru Ahmed Magu, Henveiru, Male, Republic of Maldives. Tel: 00-960-323014/16; Fax: 00-960-324778.

E-mail:hicomal1@dhivehinet.net.mv

109. Mali

(Republic of Mali) Republique due Mali Capital: Bamako; Other Large Citles: Segou, Mopti; Area: 1,240,192 sq.km; Population: 11,716,829; Languages: French (official), Bambara and other African languages; Religlons: Muslim-90%, indigenous beliefs-9%, Christian-1%; Literacy: 46.4%; Life Expect-



ancy:49; Currency: CFA Franc (\$1=518.98); p.c.i: \$1,200; Date of Independence: 22nd September, 1960.

Government Type: Republic; President: Amadou Toumani Toure; PM: Ousmane Issoufi Maiga.

History: Mali is a land-locked state in West Africa. It was proclaimed an independent republic in 1960.

The area was part of the great Mali Empire, until the 15th century. In 1904, it became a French colony named French Sudan and in 1946 part of the French Union. In June 1960 it became independent and was named the Sudanese Republic. The Sudanese Republic federated with Senegal in the Mali Federation that year. Senegal then withdrew from this and the Sudanese Republic changed its name to the Republic of Mali on Sept. 22, 1960. Amadou Toumani Traore was in power from 1968 to 1991.

Agreements were signed with Tuareg insurgents in the north in '91, '92 and '94. A special administration for the Tuareg north was provided in 1992.

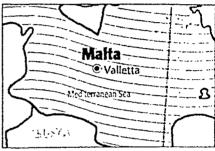
In Jan. '99, ex-President Traore was condemned to death for economic crimes.

Economy: The country is poor in natural resources. Only about 20 per cent of the land is cultivable. The main crops are rice, millet, groundnuts and cotton. Livestock-raising is important and the processing of hides and skins remains the chief industry. There is extensive river-fishing and good export trade in dried and smoked fish.

Recent Events: In May 2006, visiting French Interior Minister Nicolas Sarkozy faced a hostile reception from protesters accusing him of racism over the tough immigration bill he introduced in parliament. In June, the government signed an Algerian-brokered peace deal with Tuareg rebels seeking greater autonomy for their northern desert region.

110. Malta

(Republika Ta' Malta)



Capital: Valletta; Other Large Cities: Birkirkara, Harum and Sliemma; Area: 316 sq. km; Population: 400,214; Languages: Maltese and English; Religions: Roman Catholic-98%; Literacy: 92.8%; Life Expectancy: 79.01; Currency: Maltese Lira (\$1=0.339); p.c.i: \$ 19,900; Date of Independence: 21" September, 1964.

Government Type: Republic; President: Eddie Fenech Adami; PM: Lawrence Gonzi

History: Malta is an island in the central Mediterranean Sea, 95 km from Sicily and about 290 km from the African coast. This state also includes the adjoining islands of Gozo and Comino. Malta became independent in 1964 and a republic in 1974. Malta joined the European Union on May 1, 2004.

Economy: The rocky country has no natural resources. Textiles, footwear, rubber products and plastics are exported. Ship repaired ship building are major economic accessors Agricultural products incl citrus, onions, potatoes ar

ism, however, remains the island's major industry.

Mission in India: High Commission for Malta stationed at Malta .

Honorary Consulate of the Republic of Malta. 1, Hailey Road, New Delhi-110 001. Tel: 23329090; Fax: 23329393.

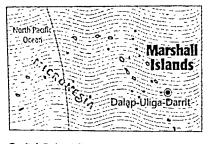
E-mail: maltaconsulate@europemail.com Web: www.kathpalia.org/malta

Indian Mission in Malta: High Commission of India, Regional Road, St. Julianas, SGN 02, Malta. Tel: 00-356-344302/03; Fax: 00-356-344259.

E-mail:hcimalta@mail.link.net.mt

111. Marshall Islands

(Republic of the Marshall Islands)



Capital: Dalap-Uliga-Darrit (on Majuro atoll); Area: 181 sq.km; Population: 60,422; Languages: Marshallese, English, other indigenous languages and Japanese; Religions: Christian (Mostly Protestant); Literacy: 93.7%; Life Expectancy: 70.31; Currency: Dollar (US); p.c.i: \$ 2,300; Date of Independence: 21st October, 1986.

Government Type: Republic; President: Kessai Note.

History: The Republic of Marshall Islands consists of two island/atoll chains, in the Pacific Ocean, the Ratak (sunrise) Chain and the Ralik (sunset) Chain, totalling 31 atolls. Each atoll is a cluster of several small islands circling a lagoon. Kwajalein is the largest of the islets, which number about a hundred.

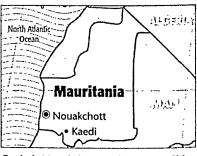
The capital Majuro is about 3200 kms southwest of Honolulu. About 92% of the population are Marshallese, a Micronesian people.

Marshall Islands was a Trusteeship territory of the United States until Oct. 1986. The Islands became a full U.N. member state in Sept., 1991. The USA controls defence policy and provides financial support. Kwajalein, one of the main atolls in the western chain, is a U.S. missile-testing range and air field.

Economy: Agriculture and tourism are mainstays. Crops: Coconuts, tomatoes, melons and bread fruit. Minerals: Phosphate deposits are mined on Ailinglaplap atoll.

112. Mauritania

(Islamic Republic of Mauritania) Republi-que Islamique de Mauritanie



Capital: Nouakchott; Other Large Cities: Nouadhibou, Kaedi; Area: 1,030,700 sq.km; Population: 3,177,388; Languages: Arabic, French and Hassanya Arabic, Wolof, Pulaar, and Soninke; Religions: Muslim-100%; Literacy: 41.7%; Life Expectancy: 53.12; Currency: Ouguiya (\$1=271.3); p.c.i: \$ 2,200; Date of Independence: 28th November, 1960.

Government Type: Islamic Republic; President: Col.Ely Ould Mohamed Vall; PM: Sidi Mohamed Ould Boubakar.

History:: The Islamic Republic of Mauritania is on the Atlantic coast of the West African bulge.

This former French overseas territory became autonomous in 1958 and fully independent on Nov. 28, 1960. Opposition parties were legalised and a new constitution approved in 1991.

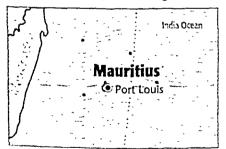
Mauritania signed a peace treaty with the Polisario Front in 1980, and renounced sovereignty over its share of Wesern Sahara.

Economy: As much as 47% of the total area of the country is desert. The population is traditionally nomadic, rearing cattle and sheep. Main crops: dates, grain. Fishing is important. Deposits of iron and copper are being exploited. Oil prospecting is going on. Industry: Fish processing and iron mining.

Recent Events: Soldiers overthrew Mauritania's president, Maaouiya Ould Sid Ahmed Taya, who had been attending King Fahd's funeral, and set up a military council to end what is called a "military regime".

113. Mauritius

Capital: Port Louis; Other Large Cities:



Curepipe, Quatre Bornes; Area: 2040 sq.km; Population: 1,240,827; Languages: English, French, Creole and Hindustani; Religions: Hindu-52%, Christian-28.3% (Raman Catholic-26%, Protestant-2.3%), Muslim-16.6%, others-3.1%; Literacy: 85.6%; Life Expectancy: 72.63; Currency: Rupee (\$1=30.78); p.c.i: \$ 13,100; Date of Independence: 12th March, 1968.

Government Type: Parliamentary Democ-

racy; President: Anerood Jugnauth; PM: Navichandra Ramgoolam.

History: Mauritius, a volcanic island nearly surrounded by coral reefs, lies about 800 km east of Madagascar in the Indian Ocean. Settled by the Dutch in 1638. The French who took over in 1721, brought African slaves. The British who ruled from 1810 to 1968 brought Indian workers for the sugar plantations. The Indian majority in Mauritius are descendants of these workers. Ethnic groups: Indo-Mauritian 68%, Creole 27%.

Became an independent state on Mar.12, 1968. Formally severed its association with the British crown and became a republic in 1992.

About 37,000 people live in Rodrigues, a small dependency.

Economy: Sugarcane is the predominant crop. The main secondary crops are tea, tobacco and potatoes. Tourism is a highly developed industry. (500,000 tourists a year). Other industries: rum, textiles, processing of sugar and tea. Mauritius is one of world's leading exporters of woollen knitwear.

Recent Events: In April 2006, one hundred former residents of the Chagos Archipelagoclaimed by Mauritius - made a return visit nearly 40 years after being evicted by Britain to make way for a US military base on the island of Diego Garcia. Their legal battle with Britain continues.

Mission in India: Mauritius High Commission, EP-41 Jesus & Mary Marq, Chanakyapuri, New Delhi 110021 Tel- 2410 2161-63; Fax:2410 2194

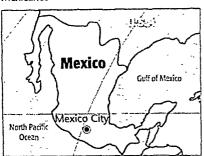
E-mail:mhcnd@bol net in

Indian Mission in Mauritius: High Commission of India, 6th Floor, Life Insurance Corporation of India Building, President John Kemmedy Street P O Box No. 162, Port Louis, Mauritius. Tel. 00-230-2083775/6, 2080031, Fax: 00-230-2086859, 2088891.

E-mail:hicombc@

114. Mexico

(United Mexican States) Estados Unidos Mexicanos



Capital: Mexico City; Other Large Cities: Monterrey, Puebla; Area: 1,972,547 sq.km; Population: 107,449,525; Languages: Spanish, Amerindian languages; Religions: Nominally Roman Catholic-89%, Protestant-6%, others-5%; Literacy: 92.2%; Life Expectancy: 72.63; Currency: New Peso (\$1=11.40) (Controlled rate); p.c.i: \$ 10,000; Date of Independence: 24th September, 1821.

Government Type: Federal Republic; President & PM: Vicente Fox Quesada.

History: A federal republic of middle America, Mexico became an independent state in 1821 and a republic in 1823.

Mexico is the only Latin American country not to have a military coup in the post-war period.

Guerrillas of the Zapatista National Liberation Army launched an uprising on Jan.1, '94 in southern Mexico. A tentative peace accord was reached in March.

Economy: Mexico is not well suited for agriculture so it is obliged to import food. The important agricultural products are maize, rice, wheat, sugar, coffee and cotton. Sea fishing is also important as an occupation. Mexico is the world's leading producer of silver, sulphur and fluorite. Other minerals include coal, zinc, lead, manganese, bauxite and uranium. In recent years, Mexico has become one of the main producers and ex-

porters of petroleum. Main industries: Ste chemicals, electric goods, textiles, rubb tourism. In the 1980's Mexico experiences major economic crisis resulting from inflatic collapse of oil prices and severe unemploment. The devaluation of the peso in 19 sparked an exodus of capital. A collapse the currency was prevented by pledges of L aid and an austerity plan.

Institutional Revolutionary Party (PRI) w defeated for the first time in 71 years in Ju 2000, and Vicente Fox, the Opposition ca didate was elected president.

Recent Events: In February 2006, a feder post of special prosecutor was created tackle violent crime against women. Mexic had been criticised by the UN and righ groups over the unsolved murders of mothan 300 women over 12 years in the bord city of Ciudad Juarez. In July, conservative candidate Felipe Calderon was declared the winner of presidential elections with a razothin majority over his leftist rival, Andre Manuel Lopez Obrador. Obrador challenge the result with mass street protests.

Mission in India: Embassy of Mexico, 20 D, Sardar Patel Marg, Chanakyapuri, Ne Delhi-110 021. Tel: 24107182-83; Fax: 91 11-24107185.

e-mail:embamexindia@mantr online.com; Web: www.embamexindia.orç

Indian Mission in Mexico: Embassy of Ir dia, Avenida Musset 325, Colonia Polanco C.P. 11550, Mexico D.F. Tel: 00-525 5311050; Fax: 00-525-2542349.

E-mail:indembmx@prodigy.net.mx

115. Micronesia

(Federated States of Micronesia)

Capital: Palikir; Other Large Cities: Weno Tofol; Area: 702 sq.km.; Population: 108,004 Languages: English and local languages; Re ligions: Roman Catholic-50%, Protestant 47%; Literacy: 89%; Life Expectancy: 70.05



mency: US Dollar; p.c.i: \$ 3,900; Date of iependence: 3rd November, 1986.

Government Type: Constitutional Governent; President: Joseph J. Urusemal

History: The Federated States of Micronesia 5M), formerly known as Caroline Islands, tends across the 1,800 mile-long Caroline and archipelago in the Western Pacific. The states of the FSM are Pohnpei, Kosrae, Truk id Yap, Each state consists of several islands. cept for Kosrae, a single island. The islands,)7 in all, vary geologically from high, mouninous islands to low, coral atolls.

The FSM, which came into being on May 3, 1979 was a Trusteeship Territory of the nited States. In November 1986 USA enred into a Compact of Free Association with . Became a full UN member state on Sept. 7, 1991. The USA controls defence and proides financial support.

Economy: Crops: Tropical fruits, vegtables, etc. Industry: Tourism and fishing.

Mission In India: Embassy of the Federated itate of Micronesia stationed at Tokyo.

116. Moldova

(Republic of Moldova) Pepublica Moldaveneasca

Capital: Chisinaufformerly Kishinevy: Other large Cries: Traccol, Beltoy, Area: 33,700 sq lm.; Population: 4,466,706; Languages. Romanian, Ukrainian; Religions: Eastern Orthodoxigan, Jewish TSA Babbot and other en-0.5%; Literacy: 99.1%; Life Exceptancy



65.65; Currency: The Leu (\$1=13.375); p.c.l: \$ 1,800; Date of Independence: 27th August, 1991.

Government Type: Republic; President: Valdimir Voronin: PM: Vasile Tarley.

History: A former Soviet republic that became independent in Dec., 1991

Moldova (Moldavia until 1990) has Ukraine and Romania as neighbours. The region was taken from Romania in 1940, the people speak Romanian. In a referendum in March, 1994, Moldovans voted to remain independent, and against any union with Romania. Moldova is a fertile black, earth plain. It contained about one-fourth of the former USSR's vineyards.

In May, '97, leader: of Moldova and a break- away region Transdmestria (which approved a separatist constitution in 1995) signed an agreement to keep Moldova a single state

Economy April Iture Crain, sugar-bres, vedetacles trut, grapes Industry, Wire making, tobacco canding, woodwicking, textles metallurgy dairy, TV, Indge, wast-ירם הפרורה

117. Monaco

E-robally of Moraco. Cautal Monaca Companying City Carlo Area: 30 oglarn; Popision Landlages Francis, More ar adidors acrear Car 39% Life Exceptance.



(\$1=0.79); p.c.i: \$ 27,000; Date of Independence: 1419

Government Type: Constitutional Monarchy; Head of State: Prince Albert II; Head of Govt: Jean-Paul Proust.

History: Monaco is a sovereign principality on France's south-eastern Mediterranean coast. Of the resident population, 40% are French, 17% Italian and 5% British. Monaco is a member of the U.N.

Economy: The principality is a series of connected towns-Monaco-Ville, La Condamine, Fontvieille and Monte Carlo with its casinos. opera house, grand hotels, shops and villas.

Monaco is a fashionable pleasure resort visited by as many as 1.5 million tourists every year. Its main attractions are the casinos and its international motor sports—the Monte Carlo Rally and the Monaco Grand Prix, Tourism, gambling, and tobacco monopoly are its main sources of income.

There are a number of light industries, such as chemicals, plastics and precision instruments. There were 43 km.of roads in 1995. There is one policeman for every 60 residents.

Recent Events: Prince Rainier III passed away.

Mission in India: Hon. Consulate General of Monaco, DLF Centre, 9th Floor, Sansad Marg, New Delhi-110 001. Tel: 23719202-04 Fax: 23719233.

118. Mongolia

(Mongolian Republic) Mongol Uls Capital: Ulan Bator; Other Large Cities: Darhan, Erdenet; Area: 1,565,000 sq.km; Population: 2,832,224; Languages: Mongolian; Religions: Tibetan Buddhist Lamaism-96%, Muslim (primarily in the south-west), Shamanism and Christian-4%; Literacy: 97.8%; Life Expectancy: 64.89; Currency: Tugrik (\$1=1,170); p.c.i: \$ 1,900; Date of Independence: 11th July, 1921.

Government Type: Parliamentary; President: Nambaryn Enkhbayar; PM: Miegombyn Enkhbold.

History: The Mongolian People's Republic, formerly known as Outer Mongolia, lies in Central Asia with Russia to the north and China to the south, east and west. It is one of the world's oldest countries. Much of the Gobi desert falls within Mongolia. The great Mongol warrior Genghis Khan (1162-1227) founded the Mongol world empire. It became an independent state in 1921. Political opposition was legalised in 1990. In July, Communists won the first free elections to the legislature. The constitution of 1992 abolished the 'People's Democracy', introduced democratic institutions and a market economy and guaranteed freedom of speech. The second free election in 1996 resulted in the defeat of the Communist Party which had ruled Mongolia for over 70 years. A reformist democratic coalition (with 50 seats in the 76seat Great Hural) came to power.

Economy: Mongolia has been changed from a nomadic culture to one of settled agriculture and growing industries with aid from former USSR and East European nations. Live-



stock-raising is the principal occupation and comprises horses, oxen, sheep, goats and camels. The herdsmen are organised in collectives. State farms practise large-scale agriculture (crops: grains). Minerals include coal, flourspar, tungsten, tin and copper. Industry: Food processing, textiles, chemicals and cement.

Mongolia won admission to the World Trade Organisation in July, 1996-the first transition economy of the old Soviet bloc to join the body as a new member.

Mongolia's former communist rulers won a landslide victory in Parliamentary elections in July, 2000.

Recent Events: In January 2006, coalition government headed by Tsakhiagiin Elbegdori fell after the MPRP pulled out, blaming the leadership for slow economic growth.

Mission in India: Embassy of Mongolia, 34, Archbishop Makarios Marg, New Delhi-110003, Tel: 24631728, 24617989; Fax: 91-11-24633240, E-mail:mongemb@vsnl.net

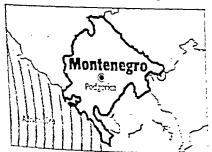
Web: mongemb.com

Indian Mission in Mongolia: Embassy of India, Zaluuchuudyn Urgun Chuluu 10, C.P.O. Box No. 691, Ulaanbaatar - 13, Mongolia. Tel: 00-976-1-329522/24/28; Fax: 00-976-1-329532.

E-mail:indembmongolia@magicnet.mn

119. Montenegro

Capital: Podgorica (administrative capital); Cetinje (capital city); Other Large Cities:



Ulcinj, Tivat, Kolasin; Area: 14,026 sq.km; Population: 630,548; Languages: Serbian (Ijekavian dialect - official); Religions: Orthodox, Muslim, Roman Catholic; Literacy: 97%; Life Expectancy: 73; Currency: Euro; p.c.i: \$ 2,200; Date of Independence: 3rd lune 2006.

Government Type: Republic; President: Filip Vujanovic; PM: Milo Djukanovic.

History: Montenegro, the world's newest nation, declared its indepedence on June 3, 2006. The country got its name (literally, "black mountain") from the dark mountain forests that cover the land. Some 60 per cent of the country is more than 1,000 metres high, with the tallest peak reaching to 2,522 metres. The mountains were a natural fortress that helped Montenegro maintain its independence until it suffered devastating losses in World War I. It became part of Serbia in 1918 and Yugoslavia in 1929.

The people of Montenegro gained greater autonomy when the name Yuqoslavia was discarded in favour of a democratic and federal country named Serbia and Montenegro. On May 21, 2006, 66.6 per cent of Montenegro voted to secede from Serbia and become independent.

Economy: The economy of Montenegro is based on agriculture and animal husbandry. Important crops include cereals, tobacco, vegetables, grapes, figs and olives. The main industries are lumber milling, salt processing and tobacco processing.

Recent Events: In January 2006, at least 44 people died and nearly 200 were injured when a passenger train crashed into a ravine in Southern Montenegro. In May, Montenegro held independence referendum. Just over required \$5% of voters said yes. In June, Montenegro declared independence. Serbia responded by declaring itself the independent sovereign successor state to the Union of Serbia and Monta-الاجتماعية

120. Morocco

(Kingdom of Morocco) al-Mamlaka al-Maghrebia



Capital: Rabat; Other Large Cities: Fez, Marrakech; Area: 458,730 sq.km (excluding Western Saharan territory); Population: 33,241,259; Languages: Arabic, Berber; Religions: Muslim-98.7%, Christian-1.1%, Jew-

ish-0.2%; Literacy: 51.7%; Life Expectancy:

70.94; Currency: Dirham (\$1=8.75); p.c.i: \$

4,200; Date of Independence: 2nd March,

1956.

Government Type: Constitutional Monarchy; Head of State: King Mohammed VI; PM:

chy; Head of State: King Mohammed VI; PM: Driss Jettou. History: The Kingdom of Morocco, which

is a constitutional monarchy, is situated at the extreme northwest of Africa. The Atlas mountains stretch across Morocco.

Morocco recovered its political independence from France on March 2, 1956. The northern strip of Spanish Sahara was ceded by Spain in 1958, and in 1969, the former Spanish province of Ifni was returned to Morocco. In 1976, Morocco added 70,000 sq.km. of phosphate-rich land of former Spanish Sahara to its area.

Economy: Primarily an agricultural country, Morocco produces cereals, including barley, wheat, corn and fruits. Vineyards are abundant and dates form a regular crop. Livestock raising is important and fishing is well-developed. About 500,000 Moroccans rely on fishing as their occupation. The most important mineral extracted is phosphate, of

which Morocco remains a world supplier. Other minerals are iron ore, coal, lead and manganese. Industry: Carpets, clothing, leather goods, mining, sugar, metallurgy, chemicals and tourism. Its foreign debt has made Morocco one of the most indebted countries in the world.

The dispute with Spain on the tiny island Perejil caused some tension in July but it subsided. King Mohammed VI married commoner and computer engineer Salma

Bennami in July.

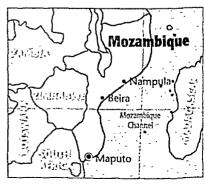
Mission in India: Embassy of the Kingdom of Morocco, 33 Archbishop Makarios Marg, New Delhi-110003. Tel: 24636920/21 & 24636924 (Visa); Fax: 24636925.

E-mail: sifamand@giasdl01.vsnl.net.in Web: www.moroccoembindia.com Indian Mission in Morocco: Embassy of India, 13, Charia Michlifen, Agdal, Rabat, Morocco. Tel: 00-212-3-7671339, 7675974/5; Fax: 00-212-3-7671269.

E-mail: india@maghrebnet.net.ma

121. Mozambique

(Republic of Mozambique) Republica de Mocambique .



Capital: Maputo; Other Large Cities: Beira, Nampula; Area: 783,030 sq.km; Population:

19,686,505; Languages: Portuguese and

ntu; Religions: Catholic-23.8%, Zionist ristian-17.5%, Muslim-17.8%, other-.8%, none-23.1%; Literacy: 47.8%; Life Exectancy: 39.8; Currency: Metical 1=25733.7); p.c.i: \$ 1,200; Date of Indeendence: 25th June, 1975.

Government Type: Republic; President: rmando Guebuza; PM: Luisa Diogo. History: Mozambique is the old Portuguese

ast Africa. Became independent on June 25, 975, after 470 years of Portuguese colonial ule. Mozambique Channel of the Indian Ocean bounds it in the east. The majority of the population belongs to the Bantu tribe. The Zambezi is the largest of the 25 rivers that flow into the Indian Ocean.

In 1974, Frelimo (Front for the Liberation of Mozambique) took over local administration. The 1980's witnessed severe drought, famine, civil war and heavy loss of life. According to a study by Washington-based Population Crisis Committee, Mozambique was the place with the highest human suffering in 1992.

Agreement was reached in Oct. '92 between government and the rightist Renamo (Mozambican National Resistance Movement) guerrilla group for a ceasefire in their 15-year war, which killed more than 600,000, drove 1 million people into exile and left half the population in need of donated food. The treaty provided for all weapons to be handed over to UN. The UN presence ended in Jan. '95. Elections took place in 1994.

Economy: The economy is based on agriculture. The major cash crops are cashewnuts, sugar, cotton and sisal. Maize, bananas, rice, groundnuts, vegetables and coconuts are also grown. Considerable mineral resources exist although only coal, diamonds and bauxite are now exploited. Mozambique has twothirds of the world's known reserves of tantalite and is the second largest producer of beryl. Industry: Steel, cement, engineering, textiles and petroleum products.

Missions in India: High Commission of the Republic of Mozambique, B-3/24, Vasant Vihar, New Delhi - 110057. Tel: 26156663/ 4; Fax:26156665;

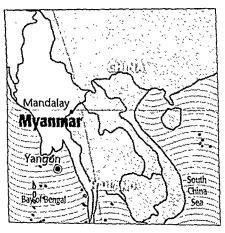
E-mail: hcmozind@hclinfinet.com

Indian Mission in Mozambique: High Commission of India, Avineda Kenneth Kaunda No. 167, P.O. Box No. 4751, Maputo, Mozambique. Tel: 00-258-1-492437, 490717; Fax: 00-258-1-492364.

E-mail:hcimpto@hcoi.uem.mz

122. Myanmar

(Union of Myanmar) Pyeidaungzu Myanma Naingangandaw



Capital: Seat of government moving to Naypyidaw, also known as Pyinmana, from Rangoon (Yangon); Other Large Cities: Mandalay, Bassein; Area: 676,553 sq.km; Population: 47,382,633; Languages: Burmese, Karen, Shan; Religions: Buddhist-89%, Christian-4% (Baptist-3%, Roman Catholic-1%), Muslim-4%, animist-1%, others-2%; Literacy: 85.3%; Life Expectancy: 60.97; Currency: Kyat. (\$1 =6.42) p.c.i: \$ 1,700; Date of Independence: 4th January, 1948.

Government Type: Military Regime; President: Gen. Than Shwe; PM: Gen. Soe Win. History: Originally a part of British India, Union of Myanmar (Burma till May 1989) located between south and south-East Asia, on Bay of Bengal, became an independent country on January 4, 1948.

Gen. Ne Win who ruled Burma with an iron hand for 26 years was forced out in popular uprising in mid-1988. The Armed Forces set up a State Law and Order Restoration council (SLORC). In June 1990, in the first free elections in 30 years, the National League for Democracy won by a big majority but the army was reluctant to hand over power. Aung San Suu Kyi, the leading opposition leader and winner of Nobel Peace Prize, was kept under house arrest from 1989 to '95. The ruling junta has been promising a new Constitution for nearly seven years now but nothing concrete has emerged. Suu Kyi's activities are restricted by the government.

In 1987 UN bestowed the least developed country status on Burma, which was once the richest nation in SE Asia.

Myanmar joined the regional group BISTEC (Bangladesh, India, Sri Lanka, Thailand Economic Cooperation) in July '97, which then became BIMSTEC. In July, '97 ASEAN admitted Myanmar as a member.

Economy: Known as the "rice bowl of the Far East", Myanmar also grows sugarcane, peanuts, and beans. The chief minerals are petroleum, lead, tin, zinc, tungsten, copper, antimony, silver and gems. The rubies, sapphires and jade found in Myanmar are especially famous. Teakwood is exported.

Recent Events: Aung San Suu Kyi turned 60. UN called for her release • Former Prime Minister Khin Nyunt received a 44-year suspended sentence after being convicted on eight charges including bribery and corruption.

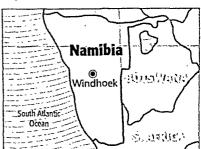
Mission in India: Embassy of the Union of Myanmar, 3/50F, Nyaya Marg, Chanakyapuri, New Delhi-110021. Tel: 26889007-08; Telefax:26877942.

E-mail:myadeli@nda.vsnl.net.in Web: myandel.com

Indian Mission in Myanmar: Embassy of India, No. 545-547, Merchant Street, Post Box No. 751, Yangon, Myanmar. Tel: 00-95-1-240633, 243972, 282552; Fax: 00-95-1-254086/ 250164.

123. Namibia

Capital: Windhoek; Area: 826,700 sq.km;



Population: 2,044,147; Languages: English, Afrikaans, German, several indigenous languages; Religions: Christian-80-90% (at least Lutheran), Indigenous beliefs-10-20%; Literacy: 84%; Life Expectancy: 43.39; Currency: Dollar (\$1=6.846); p.c.i: \$ 7,000; Date of Independence: 21st March, 1990.

Government Type: Republic; President: Hifikepunye Pohamba; PM: Nahas Angula.

History: Namibia, formerly known as South West Africa, lies on the Atlantic coast of South Africa. After prolonged insurgency a peace accord was signed on 5th October, 1988 by Angola, Cuba and South Africa, and Namibia became a fully independent nation under the UN mandate on 21 March, 1990. The first general elections for a Constituent Assembly were held in November 1989 when SWAPO (South West Africa People's Organisation) which spearheaded the freedom struggle for 30 years was swept to power.

Walvis Bay and the off-shore islands were transferred to Namibian sovereignty on Feb. 28, 1994.

Economy: Diamonds are Namibia's most

aluable economic asset followed by copper. ranium, zinc, lead, germanium and mananese. Stock-breeding is important; cattle. heep and goats abound. Fishing is a supplenentary source of food and income. Food crops include corn, millet and sorghum. Industry: Canning, textiles, leather, dairy, GDP by major sectors: agriculture: 11%, industry 28%, and services 61%.

Population growth rate is 3% per annum. The country has a wide variety of tourist attractions mainly in the form of spectacular scenery and wildlife reserves. Walvis Bay and Luderitz are the two harbours.

Recent Events: In June 2006, a national anti-polio vaccination campaign was launched following the death of at least 12 people from the disease.

Mission in India: High Commission of the Republic of Namibia, A-2/6, Vasant Vihar, New Delhi-110057; Tel: 26140389/0890/ 4772; Fax:26146120/26155482;

E-mail:nhcdelhi@del2.vsnl.net.in

Consulate: Mumbai: Tel:56657272/ 56658027, Fax:56658028,

E-mail:syamalgupta@tata.com

Indian Mission in Namibia: High Commission of India, 97, Nelson Mandela House, P.O. Box 1209, Windhoek, 9000, Namibia, Tel: 00-264-61-226037, 228433; Fax: 00-264-61-237320

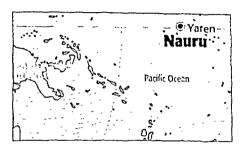
E-mail:hicomind@mweb.com.na

124. Nauru

(Republic of Nauru) Naoero

Capital: Yaren district; Area: 21.1 sq.km; Population: 13,287; Languages: English and Nauruan; Religions: Christian (two-thirds Protestant, one-third Roman Catholic); Life Expectancy: 63.08; Currency: Australian Dollar (\$1=1.35446); p.c.i: \$ 5,000; Date of In-

Government Type: Republic; Head of State & Govt (President): Ludwig Scotty.



History: Nauru, a small coral island in the central Pacific, just 42 km, south of the equator is world's smallest republic. It is an ovalshaped coral island of approximately 20 km in length, surrounded by a reef which is exposed at low tide. Nauru became a republic on Jan. 31, 1968. It has an 18-member Parliament, elected on a 3-yearly basis.

About four-fifths of Nauru is phosphatebearing rock, which accounts for 98% of its exports. It is estimated that the phosphate deposits will be exhausted by 2008.

The world's smallest democracy once had one of the highest per capita incomes in the world, but depleted phosphate mines and bad investments have left it economically hereft.

Mission in India: Honorary Consulate General of Nauru, S-327, Greater Kailash -1, New Delhi-110048, Tel: 26414744/26215780; Fax: 262157780.

E-mail: kartarbhalla@hotmail.com

125. Nepal

(Kingdom of Nepal) Nepal Adhirajya

Capital: Kathmandu; Other Large Cities: Biratnagar, Lalitpur; Area: 147,181 sq.km.; Population: 26,267,147; Languages: Nepali, Maithir, Bhojpuri etc.; Religions: Hindu-80.6%, Buddhist-10.7%, Muslim-4.2%, Kirant-3.6%, others-0.9%. Nepal is the only official Hindu state in the world; Literacy: 48.6%; Life Expectancy: 60.18; Currency: Nepalese Rupee (US \$1=73.344); p.c.i: \$ 1,400; Date of Independence: 1768.



Government Type: Parliamentary Democracy; Head of State: King Gyanendra Bir Bikram Shah, PM: Girija Prasad Koirala.

The Kingdom of Nepal (Nepal Adhirajya) is a land-locked Asian country in the Himalaya mountain range. It is bounded on the north by Tibet, on the east by Sikkim and West Bengal, on the south and west by Bihar and Uttar Pradesh.

History: From 1846 to 1951 Nepal was virtually ruled by the Rana family, a member of which always held the office of prime minister, the succession being determined by special rules. The last Rana prime minister resigned in Nov. 1951. The 15 feudal chieftainships were integrated into the kingdom on 10 April 1961.

Following pro-democracy demonstrations on 16 April 1990 King Birendra dismissed the government and proclaimed the abolition of the panchayat system of nominated councils. On 9 November 1990, the King proclaimed a constitution by which he relinquished his absolute powers.

Under the constitution of 9 Nov. 1990 Nepal became a constitutional monarchy based on multi-party democracy. Parliament has 2 chambers: a 205-member House of Representatives (Pratinidhi Sabha), of which 10 members are nominated by the king.

The country is administratively divided into 14 zones, subdivided into 75 districts and over 3,500 villages,

Economy: Nepal is among the poorest and least developed countries in the world with

nearly half of its population living below the poverty line. Agriculture is the mainstay of the economy, providing a livelihood for over 80% of the population and accounting for 41% of GDP. Textile and carpet production, accounting for about 80% of foreign exchange earnings in recent years, contracted significantly in 2001 due to the world economic slump and pressures by Maoist insurgents on factory owners and workers.

Industry contributes about 22% of Nepal's GDP.Its major trading partner is India. Principal exports are food grains, jute, timber, oilseeds, ghee (clarified butter), potatoes, medicinal herbs, skins and cattle. The chief imports are textiles, cigarettes, salt, petrol and kerosene, sugar, machinery, medicines, boots and shoes, paper, cement, iron, steel and tea.

Tourism is the second largest industry. It is being developed by the construction of new tourist centres in the Kathmandu valley. Regular air services link Kathmandu with Pokhara Lake. Major tourist attractions include Lumbini, the birthplace of Buddha, and the Himalaya mountain range including Mount Everest, the world's highest peak. About 30 per cent of tourists are from India.

Government has a poverty reduction scheme whereby poverty is to be brought down to 10% in the 12th plan.

In Feb. '96, India and Nepal signed two agreements including an initiative for sharing of water and electricity from the Mahakali tiver.

King Birendra (brother of King Gyanendra), Queen Aishwarya and six other members of the royal family were assassinated on June 1, 2001.

Recent Events: In April 2006, an opposition alliance called off weeks of strikes and protests against the direct rule of the king after the monarch agreed to reinstate parliament. G.P. Koirala was appointed prime minister. Maoist rebels called a three-month ceasefire. In May, parliament voted unanimously to curtail the king's political powers.
Rebel leader Prachanda and PM Koirala held
talks - the first such meeting between the two
sides - and agreed that the Maoists should
be brought into an interim government.

Mission in India: Royal Nepalese Embassy, Barakhamba Road, New Delhi - 110001. Tel. 23329969, 23329218; Fax: 23326857, 3329647.

E-mail:ramjanki@del3.vsnl.net.in

Indian Mission in Nepal: Embassy of India, Lain Chaur, Post Box No. 292, Kathmandu, Nepal. Tel: 00-977-1-410900; Fax: 00-977-1-413132, 420130.

E-mail:indemb@mos.com.np

126. The Netherlands

(Kingdom of the Netherlands) Koninkrijk der Nederlanden



Capital: Amsterdam (Seat of Govt: The Hague); Other Large Cities: Rotter dam, Ulrecht; Area: 41,160 sq.km; Population: 16,491,461; Languages: Dutch; Religions: Dutch Reformed-13%, Calvinist-7%, Muslim-5.5%, others-2.5%, none-41%; Literacy: 99%; Life Expectancy: 78.96; Currency: Euro (\$1=0.79); p.c.i: \$30,500; Date of Independence: 1579.

Government Type: Constitutional Monarchy, Head of State: Queen Beatrix Wilhelmina Armgard; PM: Jan Peter Balkenende.

The Kingdom of the Netherlands in North West Europe, on North Sea comprises the

Netherlands and Antilles. The country is plainland with an average height of 11 m. above sea-level. Much of the land, however, is below sea-level and is protected by dykes, which extend to some 2400 km. Netherlands is a member of the European Union.

Economy: The Netherlands is a small, densely populated and highly developed country. Agriculture has been mechanised and developed. Crops: Grains, potatoes, sugarbeets, fruits, flowers. Foodstuffs form the largest industrial sector. Dairy products account for one-quarter of exports. Other major industries include chemicals, metallurgy, machinery, electrical goods and tourism. Netherlands is one of the world's 10 leading exporting countries. Service sector contributes 71% of GDP, industry 26% and agriculture and fisheries 3%. Amsterdam is famous as a world centre for diamonds, precious metals and art treasures. Rotterdam, along the Rhine, handles the most cargo of any ocean port in the world. The Netherlands attracts 5m, tourists every year.

Recent Events: In February 2006, parliament agreed to send an additional 1,400 Dutch troops to join Nato-led forces in Southern Afghanistan. The decision came after weeks of wrangling and international pressure.

Mission in India: Royal Netherlands Embassy, 6/50 F, Shantipath, Chanakyapuri, New Delhi-110021. Tel: 2688 4951-54; Fax: 91-11-24103091 (Consular/Visa)

E-mail: nde@minbuza.nl; Web: holland-in-india.org

Indian Mission in Netherlands: Embassy of India, Buitenrustweg -2, 2517 KD, The Hague, Netherlands. Tel: 00-31-70-3469771; Fax: 00-31-70-3617072.

E-mail:ssembind2bart.nl

Dutch Territories

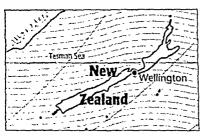
Aruba The island (Area: 193 sq.km., Population: 71,891) which lies in the southern Car-

ibbean, formed part of the Dutch West Indies from 1828 and part of the Netherland Antilles from 1845. Achieved internal self-government in 1954. Aruba was constitutionally separated from the Netherlands Antilles from Jan.1, 1986, and full independence was promised after a 10-year period. But an agreement of 1990 deleted references to eventual independence. Capital: Oranjestad. PM: Nelson O. Oduber.

The Netherlands Antilles (Area: 800 sq.km., Population: 221,736) comprise two groups of islands in the West Indies, the Leeward group (Curacao and Bonaire) and the Windward Islands. In 1954, they became an integral part of the Netherlands but are fully autonomous in internal affairs. Capital: Willemstad; Governor General: Frits Goedgedrag; PM: Etienne YS.

127. New Zealand

Capital: Wellington; Other Large Cities: Auckland, Christchurch, Hamilton; Area:



269,057 sq.km (excluding dependencies); Population: 4,076,140; Languages: English and Maori dialect; Religions: Anglican-14.9%, Presbyterian-10.9%, Roman Catholic-12.4%, Methodist-2.9%, Baptist-1.3%, Pentecostal-1.7%, other Christian- 9.4%, other-3.3%, Unspecified-17.2%, none-26%; Literacy: 99%; Life Expectancy: 78.81; Currency: New Zealand Dollar (\$1=1.616); p.c.l: \$ 25,200; Date of Independence: 26th September, 1907.

Government Type: Parliamentary Democracy; Head of State: Queen Elizabeth II; Gov.Gen:Dame Silvia Cartwright; PM: Ms. Helen Clark.

History: New Zealand, lying in the South Pacific Ocean with Tasman Sea on the west. consists of two large islands, North Island and South Island and numerous small islands. British sovereignty was proclaimed in 1840, with organised settlement beginning in the same year. The colony became a dominion in 1907.

The native Maoris, who reached New Zealand before and during the 14th century, number about 550,000. Six members of Parliament are elected directly by them.

New Zealand plans to do away with the right of appeal to the Privy Council in London - a milestone in the country's exercise to ultimately become a Republic.

The Labour Party won the general election in 1999.

Economy: The major crops are wheat, maize, oats and barley. Minerals include coal, oil and gold. Primary industries are dairying, meat and wool. Pulp and paper industry is highly developed. Iron, steel, aluminium, textil-es, transport equipment are other industries.

Recent Events: In May 2006, New Zealand troops joined an intervention force in East Timor, intended to quell unrest. In August, queen of the indigenous Maori population, Te Arkinui Dame Te Atairangikaahu, died aged 75 after a reign of 40 years.

Mission In India: High Commission for New Zealand, Sir Edmund Hillary Marg. Chanakyapuri, New Delhi-110 021. Tel: 2688 3170: Fax: 26883165,

E-mail:nzhc@ndf.vsnl.net.in

Indian Mission in New Zealand: High Commission of India, 180, Molesworth Street, P.O. Box 4045, Wellington, New Zealand. Tel: 00-64-4-4736390; Fax: 00-64-4-4990665.

E-mail:hicomind@clear.net.nz

erseas Territories

he Cook islands and Niue are self-govng territories overseas and Ross Depency and Tokelau are territories overseas ning within New Zealand's jurisdiction. The Cook Islands: (241 sq.km.) were iced under New Zealand administration in 01 and they achieved self-governing stas in association with New Zealand in 1965; opulation: 21,388

Niue (259 sq.km.), formerly administered s part of Cook Islands, achieved self-governng status in association with New Zealand n 1974. Niue is the largest uplifted coral isand in the world. Population: 2,166.

The Ross Dependency:(414,400 sq.km.), an Antarctic region, was placed under New Zealand administration in 1923.

Tokelau: (10 sq.km.) was placed under New Zealand administration in 1925. Population: 1,405.

128. Nicaragua

(Republic of Nicaragua) Republica de Nicaragua



Capital: Managua; Other Large Cities: Leon, Granada; Area: 130,000 sq.km; Population: 5,570,129; Languages: Spanish and English; Religions: Roman Catholic-85%, Protestant; Literacy: 67.5%; Life Expectancy: 70.63; Currency: Gold Cordoba (NIO) (\$1=17.18); p.c.i: \$ 2,900; Date of Independence: 15th September, 1821.

Government Type: Republic: Head of State & Govt.: Enrique Bolanos.

History: The republic of Nicaragua is to cated in the heart of Central America, it is the largest but most sparsely populated of the Central American nations. It became an independent state in 1838. The Somoza dynasty ruled Nicaragua from 1933 to 1979.

The third Somoza was overthrown by armed revolution led by Sandinista National Liberation Front, which emerged as the leading political force in the election held in 1984. But Contra rebels, comprising mainly former members of Nicaraguan National Guard and supported by the U.S. waged a nine-year war against the government led by Sandinista leader Daniel Ortega. About 30,000 people were killed. With the defeat of Ortega by Violeta Chamorro in the elections held in 1990, the civil war came to a close.

Economy: Agriculture is the principal source of national income. The most important agricultural products are cotton, coffee, sugar-cane, rice, bananas, maize and fruit. Chief industries are food processing, chemimatches, leather, beer and plastic goods. Gold, copper, silver, lead and zinc are found.

Mission in India: Embassy of Nicaragua Stationed at Panama.

Hon. Consulate, 43-A, Prithviraj Road, New Delhi-110011. Tel: 4694469; Telefax: 3221173.

E-mail: vcb@dabur.com

129. Niger

(Republic of Niger) Republique du Niger Capital: Niamey; Other Large Cities: Zinder, Maradi; Area: 1,267,000 sq.km; Population: 12,525,094; Languages: French, Hausa and Djerma; Religions: Muslim-80%, remainder indigenous beliefs and Christian; Literacy: 17.6% (1995); Life Expectancy: 43.76; Currency: CFA Franc(\$ 1=518.98); p.c.i: \$ 900;

Date of Independence: 3rd August, 1960.

Government Type: Republic; President:

Tandja Mamadou; PM: Hama Amadou.

History: The Republic of Niger lies in the heart of West Africa. Formerly part of French West Africa, Niger became fully independent on Aug. 3, 1960.

A new constitution was adopted by referendum in Dec. '92. Niger's first democratically elected President Mahamane Ousmane was ousted in a coup in January, 1996 by military ruler Ibrahim Mainassara. Elections were held in 1999.

Economy: Niger is an agricultural country with very limited resources. The principal crops are millet, peanuts and cotton. Cattle-breeding is the next most important occupation of the people. Minerals: uranium, coal, fron.

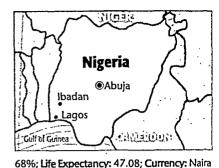
Recent Events: In June 2006, Unions called a national strike to protest against the high cost of living. Health and education ministers were sacked following pressure from donors who alleged corruption.

Mission in India: Embassy of Niger Stationed at Moscow.

130. Nigeria

(Federal Republic of Nigeria)

Capital: Abuja; Other Large Cities: Lagos, Ibadan; Area: 923,768 sq.km; Population: 131,859,731; Languages: English, Hausa, Ibo and Yoruba; Religions: Muslim-50%, Christian-40%, indigenous beliefs-10%; Literacy:



(\$1=128.3); p.c.i: \$ 1,400; Date of Independence: 1st October, 1960.

Government Type: Republic; Head of State

& Govt (President): Gen.Olusegun Obasanjo.

The Federation of Nigeria on the south coast of West Africa is black Africa's most populous nation. It is a country of 250 tribal groups.

History: Nigeria became an independent state in 1960 and a republic within the Commonwealth in Oct. 1963. Nigerians have seen seven coups in 32 years. Military has ruled the country for 30 of its 40 years of independence.

The chief agricultural products are cocoa, palm oil, palm kernels, grains, fish, cotton, rubber, peanuts and skins. Tin, lead, columbite, coal and iron ore are the chief minerals. Timber, hides and skins, cocoa and palm products are major export items. Crude oil exports have become important since 1970.Oil revenues have made possible a massive economic development programme, but agriculture has lagged. Industry is diversified:- beer, cement, textiles, cigarettes, assembly of vehi-cles, soap, canned food and aluminium products being the main items. In the early 80s, with a civilian govt. in Lagos, Nigeria became a model of African democracy and prosperity. The civilian govt. was ousted in 1983.

On May 29, 1999 Olusegun Obasanjo, who was elected in February polls, became Nigeria's third civilian President since independence, following Nnamdi Azikiwe and Shehu Shagari, ending 15 years of military rule in the country.

The execution of writer and environmentalist Ken Saro-Wiva and eight associates in Nov. 1995 led to international sanctions against Nigeria, including suspension of its Commonwealth membership.

Nigeria has fallen into steep decline. Unemployment has soared. Inflation is high. Purchasing power of most Nigerians has reached subsistence levels.

Recent Events: Militants in the Niger Delta attacked pipelines and other oil facilities and kidnapped foreign oil workers. . The rebels demanded more control over the region's oil wealth. In February, more than 100 people were killed when religious violence flared in mainly-Muslim towns in the north and in the southern city of Onitsha. In April, helped by record oil prices, Nigeria became the first African nation to pay off its debt to the Paris Club of rich leaders. More than 150 people were killed in an explosion at an oil pipeline near Lagos. The Senate rejected proposed changes to the constitution which would have allowed President Obasanio to stand for a third term in 2007. In June, Nigeria agreed to withdraw its troops from the Bakassi Peninsula to settle its long-running border dispute with Cameroon. The breakthrough was reached at UN-mediated summit.

Mission in India: High Commission of the Federal Republic of Nigeria, 21 Olof Palme Marg, Vasant Vihar, New Delhi-110057. Tel: 2614 6221, 2614 6645; Fax: 2614 6617.

E-mail: nhcnd@nde.vsnl.in Web: www. nigeriadelhi.com

Indian Mission in Nigeria: High Commission of India, 8-A, Eleke Crescent, Victoria Island, Lagos, Nigeria. Tel:00-234-1-2616604, 2615078, 2615905. Fax:00-234-1-2612660.

E-mail: hicomind(ssimbaonline.net

131. Norway

(Kingdom of Norway) Kongeriket Norge



Capital: Oslo; Other Large Cities: Bergen, Trondheim; Area: 323,895 sq.km; Population: 4,610,820; Languages: Norwegian; Religions: Church of Norway-85.7%, Pentecostal-1%, Roman Catholic-1%, other Christian-2.4%, Muslim-1.8%, Other- 8.1%; Literacy: 100%; Life Expectancy: 79.54; Currency: Krone (\$1=6.208); p.c.i: \$ 42,300; Date of Independence: 7th June, 1905.

Government Type: Constitutional Monarchy; Head of State: King Harald V; PM: Jens Stoltenberg.

History: Norway in North-West Europe occupies the western part of the Scandinavian Peninsula. It is known as the Land of the Midnight Sun, because in North Cape area, the sun does not set from middle May until the end of July, nor does it rise above the horizon from the end of November to the end of January. Nearly 70% of Norway is uninhabitable and covered by mountains, moors, glaciers and rivers. The largest lake is Mjosa; longest river Glomma; highest mountain Galdhopiggen.

Norway is a constitutional and hereditary monarchy.

Almost three-quarters of the population live in the major towns and cities. Life expectancy-men 75 years, women-81 years.

The Sami, the indigenous people of the far north, number some 30,000 and form a distinct ethnic minority.

Economy: The important agricultural products are barley, oats, rye, potatoes, fruits and dairy products. Fishing is a major occupation with immense quantities of cod, herring, whale, tuna, seal, mackerel and salmon. Forests provide raw material for many industries. Mining is an important industry. There is very little coal but plenty of hydro-electric power to run big factories. High degree of industrialisation, the base for which was provided by abundant hydroelectric resources, has given Norwegians one of the highest living standards in the world. The principal manufactures are food products, machinery and metal work, wood, paper and pulp, aluminium, electro-chemical products, ships and transportation equipment. Norway is one of world's largest producers of chemical fertiliser. It possesses a large merchant marine. Norway is the world's third-largest exporter of oil, and relies on the black stuff for 200,000 jobs.

The Nobel Peace Prize is awarded every year in Oslo on December 10.

Since the mid-1980s, more than 40% of the members of the Government have been women. In 1993, the first woman bishop was appointed in Norway. Norway has led the way in building a modern welfare state.

Dependencies of Norway: Svalbard (62,700 sq.km.), Jan Mayen (380 sq.km.), Bouvet Island (60 sq.km.), Peter I Island (249 sq.km.), and Queen Maud Land.

Mission in India: Royal Norwegian Embassy, Shantipath, Chanakyapuri, New Delhi-110 021. Tel: 26873532, 26873142; Fax: 011-26873814.

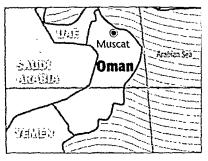
E-mail:noramb@vsnl.com

Indian Mission in Norway: Embassy of India, Niels Juels Gate 30, 0244 Oslo 2, Norway. Tel: 00-47-22443194, 22552229; Fax: 00-47-22440720.

E-mail:iamasade@online.no/india@on line.no

132. Oman

(Sultanate of Oman) Saltanat' Uman



Capital: Muscat; Area: 300,000 sq.km; Population: 3,102,229; Languages: Arabic; Religions: Ibadhi Muslim-75%, Sunni Muslim, Shi'a Muslim, Hindu; Literacy: 75.8%; Life Expectancy: 73.37; Currency: Rial Omani (\$1=0.385); p.c.i: \$13,200; Date of Independence: 1650.

Government Type: Monarchy; Head of State & Govt: Sultan Qabus Bin Said.

History: The Sultanate of Oman, formerly Muscat & Oman, occupies the south-eastern part of the Arabian Peninsula. Oman adopted the present name in 1970.

Economy: Oil is the major source of income. It forms 95% of the exports. Where there is water, the land is very fertile. The Batina coastal plain is famous for its dates, fruits and grains. Major industries are petroleum drilling, fishing and construction.

The sultanate has spent its oil resources frugally and made careful use of its natural advantages, such as its prime position astride important trade routes. The giant container port and free zone it has built at Salalah looks set to capture a growing share of the Indian Ocean transshipment business.

The Kuria Muria Islands, formerly part of Aden, were given to Oman by the British in 1967.

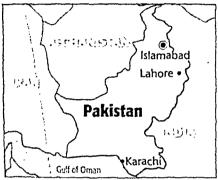
Mission in India: Embassy of the Sultanate of Omán, EP 10&11, Chandragupta Marg, Chanakyapuri, New Delhi-110 021. Tel: 26885622, 26885623; Fax: 26885621

E-mail:omandelhi@vsnl.com

Indian Mission in Oman: Embassy of India, P.O. Box 1727, Ruwi, Muscat, Sultanate of Oman, Tel: 00-968-7714120; Fax: 00-968-7717503. E-mail:indiamct@omantel.net.com

133. Pakistan

(Islamic Republic of Pakistan) Islam-i Jamhuriya-e Pakistan



Capital: Islamabad; Other Large Cities: Karachi, Lahore, Peshawar; Area: 796,095 sq.km; Population: 165,803,560; Languages: Urdu (Official), Punjabi, Sindhi, Pushtu, Baluchi, Brahui, English; Religions: Muslim-97% (Sunni-77%, Shi'a-20%), Christian, Hindu and others-3%; Literacy: 48.7%; Life Expectancy: 63.39; Currency: Rupees (US \$1= 60.23); p.c.i: \$2,400; Date of Independence: 14th August, 1947.

Government Type: Federal Republic; President: General Pervez Musharraf; PM: Shaukat Aziz.

The Islamic Republic of Pakistan is bordered in the north-west by Afghanistan, north by the former USSR and China, east by India and south by the Arabian Sea.

History: The Muslim state that emerged from partition of British India on 14 August 1947 included an eastern wing comprising mainly the eastern half of Bengal province and parts of Assam. (The name Pakistan is a coinage representing 'Punjab, the Afghan border states, Kashmir, Sind and Baluchistan').

For nine years Pakistan remained a dominion. It was proclaimed an Islamic republic on 23 March 1956. A federal parliamentary system functioned until Field-Marshal Muhammad Ayub Khan seized power in a coup in October 1958. Ayub proclaimed a presidential system in the constitution of 1962 and ruled until March 1969, when he was deposed by Gen. Yahya Khan.

In the first free elections in December 1970, Zulfikar Ali Bhutto's Pakistan People's Party dominated the west, while Sheikh Mujibur Rahman's Awami League swept the board in the east, winning 160 of the 162 seats.

East Pakistan proclaimed sovereignty and formed the People's Republic of Bangladesh on 26 March 1971. Civil war followed after Yahya, supported by Bhutto, ordered troops to arrest Mujib and put down the Bengali uprising. The east-west war ended in December 1971. Yahya handed over power to Bhutto, who ruled until July 1977, before being overthrown after an opposition campaign against alleged rigging in general elections. Gen. Zia-ul-Haq took over ---initially to hold elections and transfer power to a civilian regime. But elections were twice postponed and Bhutto was tried for the murder of a political opponent and executed

Gen. Zia was killed in a plane crash on August 17, 1988 and Senate Chairman Ghulam Ishaq Khan took over as Acting President. The country was placed under emergency rule.

In the general election held on November 16, 1988 the Pakistan Peoples' Party (PPF) led by Benazir Bhutto won the largest number of seats (92). Benazir assumed office a the PM on December 9. Ghulam Ishaq Far was elected President on December II

Benazir was dismissed in Aug 🖘 🕾 Nawaz Sharif of Islami Jamhoori [2500] over as Pakistan's 11th Prime

November 5. Sharief was dismissed in 1993. The Supreme Court annulled the dismissal leading to a constitutional impasse. Moeen Qureshi took over as caretaker Prime Minister in July. PPP returned to power in Oct. '93 and Ms. Bhutto took over as PM once again. In Apr. '96, Imran Khan launched a new party 'Movement for Social Justice'. In Nov., Ms. Bhutto was dismissed as PM, the National Assembly dissolved, and M.M. Khalid appointed caretaker PM. On Feb. 17, 1997, Nawaz Sharif was sworn in as Pakistan's 13th PM

Tensions between the military and PM Sharif ended in a coup by army chief Gen.Pervez Musharraf on Oct.12, 1999. Nawaz Sharif was later exiled to Saudi Arabia. He was convicted and sentenced to 25-yearlong life sentence on charges of hijacking and terrorism. Pakistan was suspended (Oct. 18.1999) from the Commonwealth.

A milestone in Indo-Pak relations was the Lahore bus ride by Indian PM Vajpayee in Feb. 1999.

Ethnic and communal conflict that had been raging in Karachi intensified in 1995. The Urdu–speaking Muhajirs are demanding equal rights and autonomy. In Jan-Aug., '97, over 150 persons were killed in Shia-Sunni violence, and at least 250 were shot dead in Karachi. In Aug., government enacted a new law to combat the growing sectarianism and terrorism.

Kashmir: Pakistan controls the northern and western portions of Kashmir, an area of about 84,160 sq km with a population of about 2.8 m. in 1985. The Pak-occupied Kashmir has its own Assembly, its own Council, High Court and Supreme Court. There is a Parliamentary form of Government with a Prime Minister as the executive head and the President as the constitutional head. The seat of government is Muzaffarabad.

The Pakistan Government is directly responsible for Gilgit and Baltistan (the north).

On May 28, 1998, Pakistan tested fivinuclear devices and this was followed by sixth one on May 30.

On June 20 2001, Gen. Musharraf declared

himself President of the country. Efforts to find a peace formula on issues between Indiand Pakistan received a boost in the Agra summit in July 2000 between Gen. Perve Musharraf and PM Vajpayee of India. It ended without a joint declaration but was start fo

further engagements.

Economy: Agriculture (including forestry and fishing) is the mainstay of Pakistan' economy, employing about 50% of the working population and providing about 26% of the country's gross domestic product (GDP).

The entire area in the north and west i

covered by great mountain ranges. The res of the country consists of a fertile plain wa tered by five big rivers and their tributaries Agriculture is dependent almost entirely or the irrigation system based on these rivers. The main crops are wheat, cotton, maize sugar-cane and rice, while the Quetta and Kalat divisions (Baluchistan) are known to their fruits and dates. Pakistan is self-sufficien in wheat, rice and sugar.

Industry employs about 10% of the population. Manufacturing (refined sugar, veg etable products, jute textiles, soda ash sulphuric acid, caustic soda, chip board and paper board, bicycles, cotton cloth, cottor yarn, cement and steel) contributes about 20% to GNP. Main exports are cotton cloth cotton yarns, rice, leather, carpets and tap estries. There are international airports at Karachi, Islamabad, Lahore, Peshawar and Quetta.

people were killed in a US missile strike, apparently targeting senior al-Qaeda figures, or a border village in the north. More than 30 people were killed in a suspected suicide bomb attack and ensuing violence at a Shia

Recent Events: In January 2006, up to 18

Israel would withdraw from Gaza Strip (preferred Palestinian term, Gaza district) and Jericho. Early September, PLO and Israel announced mutual recognition. On 13th, the historic accord was signed in Washington. On May 13, 1994, Israel handed over Jericho to Palestinian police, and on July 5, Arafat established Palestinian self-government there. In January, 1996, he became the first elected Palestinian President with a massive 88.1% of the vote, and took the oath of office as President of the Palestinian Authority on Feb.12. The electorate was 1,013,200. The Palestinian Council is an 82-member body.

Israeli currrency is in use. There is a Palestinian police of some 15,000 men.

President Clinton hosted a summit meeting between PM Netanyahu and Arafat in Oct. and peace talks were resumed. Israel halted talks in July '97 following the suicide bombing in a Jerusalem market which killed about 20 and injured 150. Israel yielded more West Bank territory to Palestinians, under an interim accord signed by Netanyahu and Arafat in Oct. '98. Palestinians gave new security quarantees in return.

Several dates for announcing an independent Palestinian State were declared since 1999 but nothing has happened.

Mission in India: Embassy of the State of Palestine, D-1/27 Vasant Vihar, New Delhi - 110057. Tel: 26142859, 26146605; Telefax: 26142942.

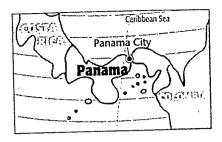
E-mail: palestin@starith.net

Indian Mission in Palestine: Representative office of India, 182-49, Shurta Street, Al Remal, P.O. Box. 1065, Gaza City, State of Palestine. Tel: 00-972-87-2825423, 2838199; Fax: 00-972-87-2825433.

E-mail:roi_gaza@trendline.co.in

136. Panama

(Republic of Panama) Republica de Panama Capital: Panama City; Other Large Cities: San



Miguelito, David; Area: 77,082 sq.km; Population: 3,191,319; Languages: Spanish, English; Religions: Roman Catholic-85%, Protestant-15%; Literacy: 92.6%; Life Expectancy: 75.22; Currency: Balboa (\$1=1); p.c.i: \$7,200; Date of Independence: 3rd November, 1903.

Government Type: Republic; President & PM: Martin Torrijos.

History: Panama, the southern-most of the Central American nations, is a narrow strip of territory at the southern end of the isthmus separating North and South America. Panama declared its independence from Colombia on Nov. 3, 1903.

In 1979, Panama assumed sovereignty over what was previosuly known as the Panama Canal Zone and now called the Canal Area.

Control over the 81.6-km waterway Panama Canal, linking the Atlantic and the Pacific oceans, had long been a bone of contention between the US and Panama.On Jan.1.2000. Panama took full control of the Canal, 785 years after the strategic waterway was opened.

Economy: The soil is extremely fertile but nearly one-half of the land is uncultivated. The chief crops are bananas, coffee, pine-apple, cocoa and cereals. Shrimp fishing is important. There are excellent timber resources, notably mahogany. Industry: Oil refining, sugar, food processing, international banking.

Mission in India: Embassy of Panama, Post Box No. 3168, Jor Bagh, New Delhi-110 003. 51, Bella Vista, Post Box No. 8400, Panama 7, Republic of Panama, Tel: 00-507-2642416. 2643043, 2648780; Fax: 00-507-2642855.

E-mail: panaind@bol.net.in

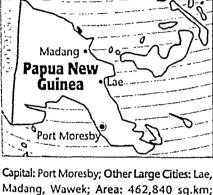
Tel: 24642518, 24627890; Fax: 24642350.

Indian Mission in Panama: Embassy of In-

dia, No.10325, Avenida Federico Boyd Y Calle

E-mail: indempan@panama.c.com.net

137. Papua New Guinea Independent State of Papua New Guinea



Population: 5,670,544; Languages: English, Melanesian and Papuan languages; Religions: Roman Catholic-22%, Lutheran-16%, Presbyterian/Methodist/London Missionary Soci-

ety-8%, Anglican-5%, Evangelical Alliance-

4%, Seventh Day Adventist-1%, Other Protestant-10%, indigenous beliefs-34%; Literacy: 64.6%; Life Expectancy: 65.28; Currency: Kina (\$1=2.98); p.c.i: \$ 2,600; Date of Independence: 16th September, 1975.

Government Type: Parliamentary Democracy; Gov. Gen: Sir Paulis Matane; PM: Sir Michael Somare. Papua New Guinea comprises the eastern

section of the island of New Guinea(-the western half belongs to Indonesia-) and adjacent islands. New Guinea is the second larg-

est island in the world.

killed at least 3000 people and wiped away a number of villages along the coastline. Economy: Agriculture occupies the majority of the population, most of whom are

country, still receiving aid from Australia.

The massive mining royalties, estimated at

\$ 2 billion, also support economy. Indus-

tries: Food processing, beverages, tobacco,

are largely of volcanic or coral origin. Th

population consists of dark-skinner

Melanesians, who live mostly along the coast

and woolly-haired Papuans who inhabit th

interior. There are more than 800 tribes, man

of whom live in almost complete isolation

with mutually unintelligible languages. Be came independent on Sept. 16, 1975, end

ing a U.N. trusteeship under the administra tion of Australia. All citizens above 18 are eli

More than 20,000 people have died or the island of Bougaineville where a protes against a copper mine evolved into a ten-year long rebellion that 13 rounds of peace talk have failed to resolve. Fighting by the gov

ernment and the secessionist Bougaineville

Revolutionary Army was halted by a truce in

Oct. '97. There was a severe drought in 1997 On July 18, 1998 a devastating tidal wave

gible to vote and stand for election.

subsistence farmers. Main food crops. Sago yams, taro, manioc, and sweet potatoes Cash crops include coconuts, cocoa, coffee

and rubber. The country has large deposits of copper, gold, silver and oil. Nevertheless, Papua New Guinea remains a poor

timber products. Mission in India: High Commission of Papua New Guinea stationed at Kuala

Lumpur.

Indian Mission in Papua New Guinea: High

Commission of India, Suite No.G-5, Hotel Islander Travelodge, P.O Box 86, Walgani, NCD, Port Moresby, Papua New Guinea. Tel:

00-675-3254757, 3251373; Fax: 00-675-3253138, 3201718(R).

History: It is a region of lofty mountains E-mail:hcipom@datec.com.pg and swampy plains. The surrounding islands

srael would withdraw from Gaza Strip (preerred Palestinian term, Gaza district) and Jericho. Early September, PLO and Israel announced mutual recognition. On 13th, the
nistoric accord was signed in Washington. On
May 13, 1994, Israel handed over Jericho to
Palestinian police, and on July 5, Arafat established Palestinian self-government there.
In January, 1996, he became the first elected
Palestinian President with a massive 88.1%
of the vote, and took the oath of office as
President of the Palestinian Authority on
Feb.12. The electorate was 1,013,200. The
Palestinian Council is an 82-member body.

Israeli currrency is in use. There is a Palestinian police of some 15,000 men.

President Clinton hosted a summit meeting between PM Netanyahu and Arafat in Oct. and peace talks were resumed. Israel halted talks in July '97 following the suicide bombing in a Jerusalem market which killed about 20 and injured 150. Israel yielded more West Bank territory to Palestinians, under an interim accord signed by Netanyahu and Arafat in Oct. '98. Palestinians gave new security guarantees in return.

Several dates for announcing an independent Palestinian State were declared since 1999 but nothing has happened.

Mission in India: Embassy of the State of Palestine, D-1/27 Vasant Vihar, New Delhi - 110057. Tel: 26142859, 26146605; Telefax: 26142942.

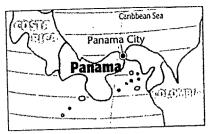
E-mail: palestin@starith.net

Indian Mission in Palestine: Representative office of India, 182-49, Shurta Street, Al Remal, P.O. Box. 1065, Gaza City, State of Palestine. Tel: 00-972-87-2825423, 2838199; Fax: 00-972-87-2825433.

E-mail:roi_gaza@trendline.co.in

136. Panama

(Republic of Panama) Republica de Panama Capital: Panama City; Other Large Cities: San



Miguelito, David; Area: 77,082 sq.km; Population: 3,191,319; Languages: Spanish, English; Religions: Roman Catholic-85%, Protestant-15%; Literacy: 92.6%; Life Expectancy: 75.22; Currency: Balboa (\$1=1); p.c.l: \$7,200; Date of Independence: 3rd November, 1903.

Government Type: Republic; President & PM: Martin Torrijos.

History: Panama, the southern-most of the Central American nations, is a narrow strip of territory at the southern end of the isthmus separating North and South America. Panama declared its independence from Colombia on Nov. 3, 1903.

In 1979, Panama assumed sovereignty over what was previosuly known as the Panama Canal Zone and now called the Canal Area.

Control over the 81.6-km waterway Panama Canal, linking the Atlantic and the Pacific oceans, had long been a bone of contention between the US and Panama.On Jan.1.2000. Panama took full control of the Canal, 785 years after the strategic waterway was opened.

Economy: The soil is extremely fertile but nearly one-half of the land is uncultivated. The chief crops are bananas, coffee, pineapple, cocoa and cereals. Shrimp fishing is important. There are excellent timber resources, notably mahogany. Industry: Oil refining, sugar, food processing, international banking.

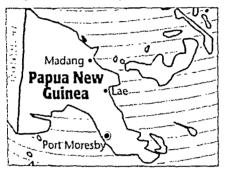
Mission in India: Embassy of Panama, Post Box No. 3168, Jor Bagh, New Delhi-110 003. [el: 24642518, 24627890; Fax: 24642350. E-mail: panaind@bol.net.in

Indian Mission in Panama: Embassy of India, No.10325, Avenida Federico Boyd Y Calle 51, Bella Vista, Post Box No.8400, Panama 7, Republic of Panama. Tel: 00-507-2642416, 2643043, 2648780; Fax: 00-507-2642855.

E-mail: indempan@panama.c.com.net

137. Papua New Guinea

Independent State of Papua New Guinea



Capital: Port Moresby; Other Large Cities: Lae, Madang, Wawek; Area: 462,840 sq.km; Population: 5,670,544; Languages: English, Melanesian and Papuan languages; Religions: Roman Catholic-22%, Lutheran-16%, Presbyterian/Methodist/London Missionary Society-8%, Anglican-5%, Evangelical Alliance-4%, Seventh Day Adventist-1%, Other Protestant-10%, indigenous beliefs-34%; Literacy: 64.6%; Life Expectancy: 65.28; Currency: Kina (\$1=2.98); p.c.i: \$ 2,600; Date of Independence: 16th September, 1975.

Government Type: Parliamentary Democracy; Gov. Gen: Sir Paulis Matane; PM: Sir Michael Somare.

Papua New Guinea comprises the eastern section of the island of New Guinea(-the western half belongs to Indonesia-) and adjacent islands. New Guinea is the second largest island in the world.

History: It is a region of lofty mountains and swampy plains. The surrounding islands

are largely of volcanic or coral origin. The population consists of dark-skinned Melanesians, who live mostly along the coasts and woolly-haired Papuans who inhabit the interior. There are more than 800 tribes, many of whom live in almost complete isolation with mutually unintelligible languages. Became independent on Sept. 16, 1975, ending a U.N. trusteeship under the administration of Australia. All citizens above 18 are eligible to vote and stand for election.

More than 20,000 people have died on the island of Bougaineville where a protest against a copper mine evolved into a ten-year-long rebellion that 13 rounds of peace talks have failed to resolve. Fighting by the government and the secessionist Bougaineville Revolutionary Army was halted by a truce in Oct. '97. There was a severe drought in 1997. On July 18, 1998 a devastating tidal wave killed at least 3000 people and wiped away a number of villages along the coastline.

Economy: Agriculture occupies the majority of the population, most of whom are subsistence farmers. Main food crops: Sago, yams, taro, manioc, and sweet potatoes. Cash crops include coconuts, cocoa, coffee and rubber. The country has large deposits of copper, gold, silver and oil. Nevertheless, Papua New Guinea remains a poor country, still receiving aid from Australia. The massive mining royalties, estimated at \$ 2 billion, also support economy. Industries: Food processing, beverages, tobacco, timber products.

Mission in India: High Commission of Papua New Guinea stationed at Kuala Lumpur.

Indian Mission in Papua New Guinea: High Commission of India, Suite No.G-5, Hotel Islander Travelodge, P.O Box 86, Walgani, NCD, Port Moresby, Papua New Guinea. Tel: 00-675-3254757, 3251373; Fax: 00-675-3253138, 3201718(R).

E-mail:hcipom@datec.com.pg

Israel would withdraw from Gaza Strip (preferred Palestinian term, Gaza district) and Jericho. Early September, PLO and Israel announced mutual recognition. On 13th, the historic accord was signed in Washington. On May 13, 1994, Israel handed over Jericho to Palestinian police, and on July 5, Arafat established Palestinian self-government there. In January, 1996, he became the first elected Palestinian President with a massive 88.1% of the vote, and took the oath of office as President of the Palestinian Authority on Feb.12. The electorate was 1,013,200. The Palestinian Council is an 82-member body.

Israeli currrency is in use. There is a Palestinian police of some 15,000 men. President Clinton hosted a summit meeting between PM Netanyahu and Arafat in

ing between PM Netanyahu and Arafat in Oct. and peace talks were resumed. Israel halted talks in July '97 following the suicide bombing in a Jerusalem market which killed about 20 and injured 150. Israel yielded more West Bank territory to Palestinians, under an interim accord signed by Netanyahu and Arafat in Oct. '98. Palestinians gave new security guarantees in return.

Several dates for announcing an independent Palestinian State were declared since 1999 but nothing has happened.

Mission in India: Embassy of the State of Palestine, D-1/27 Vasant Vihar, New Delhi - 110057. Tel: 26142859, 26146605; Telefax: 26142942.

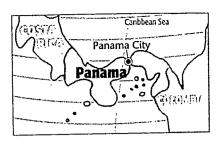
E-mail: palestin@starith.net

Indian Mission in Palestine: Representative office of India, 182-49, Shurta Street, Al Remal, P.O. Box. 1065, Gaza City, State of Palestine. Tel: 00-972-87-2825423, 2838199; Fax: 00-972-87-2825433.

E-mail:roi_gaza@trendline.co.in

136. Panama

(Republic of Panama) Republica de Panama Capital: Panama City; Other Large Cities: San



Miguelito, David; Area: 77,082 sq.km; Population: 3,191,319; Languages: Spanish, English; Religions: Roman Catholic-85%, Protestant-15%; Literacy: 92.6%; Life Expectancy: 75.22; Currency: Balboa (\$1=1); p.c.i: \$7,200; Date of Independence: 3rd November, 1903.

Government Type: Republic; President & PM: Martin Torrijos.

History: Panama, the southern-most of the Central American nations, is a narrow strip of territory at the southern end of the isthmus separating North and South America. Panama declared its independence from Colombia on Nov. 3, 1903.

In 1979, Panama assumed sovereignty over what was previosuly known as the Panama Canal Zone and now called the Canal Area.

Control over the 81.6-km waterway Panama Canal, linking the Atlantic and the Pacific oceans, had long been a bone of contention between the US and Panama.On Jan.1.2000. Panama took full control of the Canal, 785 years after the strategic waterway was opened.

Economy: The soil is extremely fertile but nearly one-half of the land is uncultivated. The chief crops are bananas, coffee, pineapple, cocoa and cereals. Shrimp fishing is important. There are excellent timber resources, notably mahogany. Industry: Oil refining, sugar, food processing, international banking.

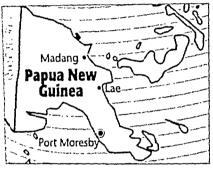
Mission in India: Embassy of Panama, Post Box No. 3168, Jor Bagh, New Delhi-110 003. Fel: 24642518, 24627890; Fax: 24642350.

Indian Mission in Panama: Embassy of India, No.10325, Avenida Federico Boyd Y Calle 51, Bella Vista, Post Box No.8400, Panama 7, Republic of Panama. Tel: 00-507-2642416,

2643043, 2648780; Fax: 00-507-2642855. E-mail: indempan@panama.c.com.net

137. Papua New Guinea

Independent State of Papua New Guinea



Capital: Port Moresby; Other Large Cities: Lae, Madang, Wawek; Area: 462,840 sq.km; Population: 5,670,544; Languages: English, Melanesian and Papuan languages; Religions: Roman Catholic-22%, Lutheran-16%, Presbyterian/Methodist/London Missionary Society-896, Anglican-596, Evangelical Alliance-4%, Seventh Day Adventist-196, Other Protestant-1096, indigenous beliefs-34%; Literacy: 64.6%; Life Expectancy: 65.28; Currency: Kina (\$1=2.98); p.c.i: \$ 2,600; Date of Inde-

Government Type: Parliamentary Democracy; Gov. Gen: Sir Paulis Matane; PM: Sir Michael Somare.

pendence: 16th September, 1975.

Papua New Guinea comprises the eastern section of the island of New Guinea(-the western half belongs to Indonesia-) and adjacent islands. New Guinea is the second largest island in the world.

History: It is a region of lofty mountains and swampy plains. The surrounding islands

are largely of volcanic or coral origin. The population consists of dark-skinned Melanesians, who live mostly along the coasts and woolly-haired Papuans who inhabit the interior. There are more than 800 tribes, many of whom live in almost complete isolation with mutually unintelligible languages. Became independent on Sept. 16, 1975, ending a U.N. trusteeship under the administration of Australia. All citizens above 18 are eligible to vote and stand for election.

More than 20,000 people have died on the island of Bougaineville where a protest against a copper mine evolved into a ten-year-long rebellion that 13 rounds of peace talks have failed to resolve. Fighting by the government and the secessionist Bougaineville Revolutionary Army was halted by a truce in Oct. '97. There was a severe drought in 1997. On July 18, 1998 a devastating tidal wave killed at least 3000 people and wiped away a number of villages along the coastline.

Economy: Agriculture occupies the majority of the population, most of whom are subsistence farmers. Main food crops: Sago, yams, taro, manioc, and sweet potatoes. Cash crops include coconuts, cocoa, coffee and rubber. The country has large deposits of copper, gold, silver and oil. Nevertheless, Papua New Guinea remains a poor country, still receiving aid from Australia. The massive mining royalties, estimated at \$ 2 billion, also support economy. Industries: Food processing, beverages, tobacco, timber products.

Mission in India: High Commission of Papua New Guinea stationed at Kuala Lumpur.

Indian Mission in Papua New Guinea: High Commission of India, Suite No.G-5, Hotel Islander Travelodge, P.O Box 86, Walgani, NCD, Port Moresby, Papua New Guinea. Tel: 00-675-3254757, 3251373; Fax: 00-675-3253138, 3201718(R).
E-mail:hcipom@datec.com.pg

138. Paraguay

(Republic of Paraguay) Republica del Paraquay



Capital: Asuncion; Other Large Cities: San Horenzo, Encarnacion; Area: 406,752 sq km; Population: 6,506,464; Languages: Spanish, Guarani; Religions: Roman Catholic-90%, Mennonite and other Protestant-10%; Literacy: 94%; Life Expectancy: 75.1; Currency: Guarani (\$1=5,830); p.c.i: \$4,900; Date of Independence: 14th May, 1811.

Government Type: Republic; Head of State & Govt (President): Nicanor Duarte Frutos.

History: Paraguay is one of the two landlocked countries of South America surrounded by Bolivia, Brazil and Argentina. The Paraguay river is navigable for some 3000 km. and steamers come upto Asuncion which is the chief port of the state. This makes up for lack of coastline or sea harbours. Paraguay gained independence from Spain on May 14, 1811. Gen.Alfredo Stroessner ruled from 1954 to 1989, until ousted in a military coup.

Economy: About 75 per cent of the population is engaged in agriculture and allied pursuits with cattle breeding as an important occupation. Main crops are maize, cotton, beans, tobacco and citrus fruits. The timber resources of the state are enormous. The chief exports are beef and other food products, quebracho (hard wood), hides and skins, cotton fibre and soya. Industries: Food processing, wood products, textiles, cement.

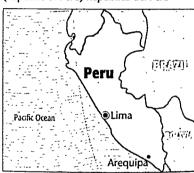
There was a coup attempt in May, 2000. An opposition leader, Julio Cesar Franco, was declared the winner in Paraguary's elections for Vice President in August. This created an unprecedented power-sharing arrangement with the President from the ruling party.

Recent Events: In June 2006, Luis Gonzaler Macchi, President from 1999-2003, was sentenced to six years in jail over illegal bank transfers. In August, former military ruler Alfredo Stroessner died in exile in Brazil, agec 93.

Indian Mission in Paraguay: Honorary Consulate General of India, Avda, Eusebio Ayale 3663 Km.4, Asuncion, Paraguay. Tel: 00-595-21-660111; Fax: 00-595-21-660115.

139. Peru

(Republic of Peru) Republica del Peru



Capital: Lima; Other Large Cities: Arequipa, Callao; Area: 1,281,215 sq.km; Population: 28,302,603; Languages: Spanish, Quechua, Aymara; Religions: Roman Catholic-90%; Literacy: 87.7%; Life Expectancy: 69.84; Currency: New Sol (\$1=3.26); p.c.i: \$5,900; Date of Independence: 28th July, 1821.

Government Type: Republic; President: Alejandro Toledo; PM: Pedro Pablo Kuczynski.

History: Peru is on the Pacific coast of S. America. It was originally the seat of the famous Inca (Red Indian) Empire. It became independent on 28 July, 1821. After a military coup in 1968, civilian government was restored in 1980. A new constitution was promulgated in Dec. '93.

he Andes mountains dominate Peru.

ne of the rarest species of animals, the vina, the llama, the alpaca and the cross-

eed paco-vicuna are found in the Andean ountains, where they are now protected.

Economy: The leading agricultural prodcts are cotton, wool, sugar, coffee, rice,

_{beans} and potatoes. Corn which is native to Peru is the staple food of the Indians, who also cultivate alfalfa. Fishing industry is well developed and Peru is the world's most im-

portant producer of fishmeal. The country, rich in minerals, is one of the leading producers of silver. Some of the biggest copper mines in the world are located in Peru. The chief exports are cotton, fish products, pe-

troleum, copper and iron ore. Mission in India: Embassy of the Republic of Peru, C-1/24, Vasant Vihar, New Delhi-110 057. Tel:26141154, 26152294; Fax: 26141155.

E-mail: info@embaperuindia.com Web: www.embaperuindia.com Indian Mission in Peru: Embassy of India, 3006, Magdalena del Mar, Lima, 17, Peru. Tel: 00-51-1-2616006, 4602289, 2616751; Fax: 00-51-1-4610374.

E-mail: consular@indembassy.org.po Website: www.indembassy.org.po

140. The Philippines

(Republic of the Philippines)Republika ng Pilipinas



Capital: Manila; Other Large Cities: Quezon City, Davao; Area: 299,404 sq.km; Population: 89,468,677; Languages: Filipino, English

and Spanish; Religions: Roman Catholic-80.9%, Evangelical-2.8%, Iglesia ni Kristo-2.3%, Aglipayan-2%, other Christian-4.5%, Muslim-5%, other-1.8%, unspecified-.6%, none-0.1%; Literacy: 92.6%; Life Expectancy: 70.21; Currency: Peso (\$1=63.16); p.c.i:

\$5,100; Date of Independence: 12th June, Government Type: Republic; President & 1898.

PM: Ms. Gloria Macapagal Arroyo. An archipelago of about 7100 islands, the Republic of the Philippines lies in the western Pacific Ocean, over 800 km. off the southeast coast of Asia. Just 11 islands constitute 94 per cent of the total land area. The principal islands are Luzon in the north and Mindanao in the south.

History: The Philippine islands, discovered by Magellan in 1521, were conquered by Spain in 1565. The islands, named for King Philip II of Spain, were ceded to USA in 1898. Became completely independent in 1946.

Economy: Main agricultural crops are rice, maize, sugar, tobacco, coconut, pineapple and bananas. Manufacturing is a major source of economic development. Industries include textiles, rubber products, oil refinery, pharmaceuticals, chemicals, electronics assembly, furniture, cigarettes, paper, metal, glassware

natural resources and has iron, silver, gold, chromite, manganese and copper deposits in commercial quantity. It has also marble quarries, forests and extensive fishing grounds.

and food products. The Philippines is rich in

Ferdinand Marcos was President from 1965 to '86. Corazon Aquino succeeded him.The U.S. vacated the Subic Bay Naval Sta

tion at the end of the year. Government and Moslem separatist ne gotiators signed an agreement on Aug. 3 the south of the country which had claimed 125,000 lives. A plebiscite is to be held in 14 provinces on Mindanao island.

Recent Events: In February 2006, 74 people were killed and hundreds were injured in a stampede for tickets for a TV game show at a stadium in Manila. More than 1,000 people were killed by a mudslide which engulfed a village on the central island of Leyte. President Arroyo declared a week-long state of emergency after the army said it had foiled a planned coup. The death penalty was abolished in June. It was scrapped in 1987 but had been re-introduced.

Mission In India: Embassy of the Philippines, 50-N, Nyaya Marg, Chanakyapuri, New Delhi-110 021. Tel: (91-11) 24101120, 26889091; Fax: 26876401.

E-mail: newdelhipe@vsnl.net.in

Consulate: Mumbai: Tel:22024792, Fax: 22814103; Kolkata: Tel: 22808353, Fax: 22808354; Chennai: Tel:2354063, Fax: 2352062

Indian Mission in Philippines: Embassy of India, 2190 Paraiso Street, Dasmarinas Village, Makati, Metro, Manila, Philippines, Tel: 00-63-2-8430101/02; Fax: 00-63-2-8158151.

E-mail:eimani@vasia.com

141. Poland

(Republic of Poland) Rzeczpospolita Polska Capital: Warsaw; Other Large Cities: Lodz, Krakow; Area: 312,677 sq.km; Population:



38,536,869; Languages: Polish; Religions: Roman Catholic-89.8%, Eastern Orthodox-1.3%, Protestant-0.3%, other-0.3% and unspecified-8.3%; Literacy: 99.8%; Life Expectancy: 74.97; Currency: Zloty (\$1=3.21); p.c.i: \$: 13,300; Date of Independence: 11th November. 1918.

Government Type: Republic; President: Lech Kaczynski; PM: Jaroslaw Kaczynski.

History: A republic of upper central Europe, Poland's history goes back to the tenth century A.D. Partitioned in the 18th century, it became independent in 1918. The Nazi invasion of Poland in 1939 initiated World War II. The country was liberated again in 1944.

Solidarity movement led by Nobel Prize winner Lech Walesa played an important part in bringing down the communist dictatorship in 1989. The communist party was dissolved in 1990. Poland joined the European Union on May 1, 2004.

Economy: About 62% of the population are urban; 32% of the population are engaged in agriculture. Chief crops are rye, wheat, oats, potatoes, sugar beets, tobacco and flax. The country has vast resources of mineral wealth, particularly coal, besides iron, lignite, natural gas, lead, zinc and sulphur. Textiles, chemicals and metallurgy are old, established industries. New industries include automobiles, tractors, heavy machinery, shipbuilding and aircraft manufacturing. Main exports are ships, coal, steel and clothing. Wide ranging measures to convert the economy into a market oriented system were introduced in 1989. In 1991, the government announced an ambitious privatisation plan.

Recent Events: In January 2006, more than 60 people were killed when roof of Katowice trade centre collapsed. In May, Law and Justice party reached majority coalition agreement with self-Defence Party and League of polish families. In July, President Lech Kaczynski's twin brother, Jaroslaw became premier.

ssion in India: Embassy of the Republic and, 50-M, Shantipath, Chanakyapuri, Delhi-110021. Tel: 51496900 (Amba-Office: 51496901); or's 1914(Embassy)/ 26872033(Commerection)

mail: gorski@de12.vsnl.net.in onsulate General of the Republic of Po-

in Mumbai: Manavi Apartments, 2nd 36, B.G. Kher Marg, Malabar Hill, nbai-400 006; Ph: (91 22) 23633863 -mail: poland@vsnl.com

ndian Mission in Poland: Embassy of

ia,UI.Rejtana 15 (Flats 2 to 7)Mokotow, 516 Warasaw, Poland. Tel: 00-48-22-95800, 8496257; Fax: -00-48-22-

96705, 8498505. E-mail:ss_com@it.com.pl

42. Portugal

epublic of Portugal) Republica Portuguesa



Capital: Lisbon; Other Large Cities: Opporto, Amadora; Area: 92,072 sq.km; Population: 10,605,870; Languages: Portuguese; Religions: Roman Catholic-94%, Protestant; Litency: 93.3%; Life Expectancy: 77.7; Currency: Euro (\$1=0.79); p.c.i: \$ 19,300; Date of Independence: 1143.

Covernment Type: Republic; President: Ar.bal Cavaco Silva; PM: Jose Socrates.

Portugal is a small rectangular territory in the southwest corner of the Iberian Penin-الملا ال

dom from the 12th century. It became a republic in 1910. The period 1932-68 saw a strong, repressive government headed by Premier Antonio de Oliveira Salazar. Portugal is a member of the European Union.

The Atlantic archipelagoes of the Azores and of Madeira form autonomous but integral parts of the republic. Economy: Nineteen per cent of the coun-

try is forest, where pine, oak, chestnut and cork grow in abundance. Winegrapes, olives, grains and potatoes are the principal agricultural products. The major minerals are coal, copper, kaolin, wolframite, lithium and titanium. Textiles, chemicals, paper, footwear and glassware are the principal manufactures. The main exports are wine, canned sardines, tuna, anchovies, resins and cork. Portugal is

one of the leading producers of cork. In 1989, a package of reforms that did away with the socialist economy was approved by parliament.

In August, '98, Portugal and Indonesia agreed to discuss an Indonesian plan that would confer a special status for East Timor.

Portugal returned Macao to China in Dec.,1999.

Recent Events: Elections were held in February, 2005.

Mission in India: Embassy of Portugal, 8, Olof Palme Marg, Vasant Vihar, New Delhi-110 057. Tel: 26142215; Fax:26152837

E-mail:emportin@ndf.vsnl.net.in

Web: www.embportindia.com

Indian Mission in Portugal: Embassy of India, Rua Pero da Covilha, No.16, 1400 Lisbon, Portugal. Tel: 00-351-21-3041090; Fax: 00-351-21-3016576.

E-mail:indiaembcom@mail.telepac.pt

Overseas Territories

Azores Islands

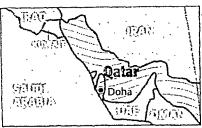
Area:2248.sq.km; Population:238,000; In

The Madeira Islands

Area: 795 sq.km.; Population:437,312; Off the North East coast of Africa. Autonomous Region since 1976.

143. Qatar

(State of Oatar) Dawletal-Qater



Capital: Doha; Area:11,437 sq.km; Population: 885,359; Languages: Arabic, English; Religions: Muslim-95%; Literacy: 89%; Currency: Riyal(QAR) (\$1=3.64); p.c.i: \$ 27,400; Life Expectancy: 73.9; Date of Independence: 3rd September, 1971.

Government Type: Traditional Monarchy; Head of State & Govt. (The Amir): Sheikh Hamad bin Khalifah al Thani.

Qatar is a 160 km. long tongue of land jutting into the Persian (Arabian) Gulf. It is surrounded almost on three sides by the Persian Gulf. Saudi Arabia lies to the south.

History: Qatar declared its independence from Britain on Sept. 3, 1971. It is an absolute monarchy. Oil revenues give Qatar a per capita income among the highest in the world.

In May, '98, the Amir said that Qatar will have a constitution. In 1999 municipal elections, wo men participated for the first time as candidates and voters.

Economy: Most of the population live in and around Doha, the capital, Immigrants from Pakistan, Iran and Oman now outnumber the native Qataris. Today the oil industry provides over 90% of the national income but employs only less than 5% of the popu-

lation. Even so, the future lies with gas. Qatar Dukhan field has been exploited since 1981 but most attention is now focused on th North field, which is the world's largest gated not associated with oil. Qatar is connected by road to the rest of Arabia and bair to the rest of the world. Agriculture: Careals, fruits, vegetables, dates. Industries fertilisers, steel, petrochemicals, cement.

Mission in India: Embassy of the State c Qatar, EP-31A, Chandragupta Marg, Chana kyapuri, New Delhi-110021. Tel: 2611798E 26118486 (Ambassador's Office) Fax:26886080.

Indian Mission in Qatar: Embassy of India P.O. Box 2788, Al-Hilal Area, Doha, Qatar. Tel 00-974-4672021, 46772716; Fax:00-974 4670448.

E-mail:indembdh@qatar.net.qa

144. Romania

Capital: Bucharest; Other Large Cities: Brasov,



Timisoara; Area: 237,500 sq km; Pop: 22,303,552; Languages: Romanian, Hian, German; Religions: Eastern Orth 87%, Protestant-6.8%, Catholic-5.6%, ers-0.4%, unaffiliated-0.2%; Literacy: 98 Life Expectancy: 71.63; Currency: Leural Lei.) (\$1=2.78); p.c.i: \$8,200; Date of dependence: 9th May, 1877.

Government Type: Republic Presic Traian Basescue; PM: Calin Popo Tariceanu.

Romania lies in the south east of 'th'

tral part of Europe. Ethnic mix: Romanians 89%, Hungarians 9%, others 2%.

Modern Romania was formed in 1859, In 1877, Romania proclaimed independence

from Turkey, became an independent state in 1878, a kingdom in 1881 and a constitutional monarchy with a bicameral legislature

in 1886. A People's Republic was proclaimed in 1947. In 1965, Romania became a socialist republic. It ended Communist dictator-

ship in 1989 by shooting long-time president Nicolae Ceausescu, National Salvation Front

took over power in 1990. Romania's King Micheal returned home in Fèb., 1997, 50 years after Communists banished him.

Industry, which accounts for 30% of the CDP, dominates Romanian economy. Heavy industries are predominated by druling rigs for oil, equipment for oil refineries, petrochemical industry, cement, thermo and hydro electric power, diesel and electric locomotives of high capacity, engineering and consumer goods, etc. Many state-owned

companies were privatised in 1996.

Romanian agriculture recorded profound changes during the last three decades, beginning with the land reforms of 1945. Chief crops: grains, potatoes, vegetables, sunflower. Forests cover over a quarter of the country.

The exports are mostly made up of machines and equipment, chemical products, chemicals, ferulisers and industrial consumer goods.

Recent Events: In January 2006, at least seven miners died in coal mine explosion. In February, former prime minister Adrian Nastase was charged with corruption. He masted he had done nothing wrong.

Mission in India: Embassy of Romania, A-47, Vasant Marg, Vasant Vihar, New Demi-110057. Tel: 26140447, 26140700; Fax: 26140611.

E-mail:emrond@notmail.com/emrond_ in/Syshoo.com/eccond@yshoo.com Indian Mission in Romania: Embassy of India, 11, Uruguay Street, Section 1, Eucharest (Romania), Tel: 00-40-1-2225451, 2213715, Fax: 00-40-1-2232581.

E-mailiamorá eoro ucidativo istrá estado. dativo

145. Russia

(Russian Federalon) Rospytuaya Federa-toya Capital: Moscow; Other Large Clues: St.Petersburg, Samara; Area:17,075,000 sq.km; Population: 142,893,540; Languages: Russian, Ukraman, Belarussian, Utbek, Armonian, Azerbaijani, Ceorgian, and others; Rusianions: Russian Orthodox-15,20%, Musim-10-15%, other Christian-2%; Literacy: 99.6%; Life Expectancy: 67.03, Currency: Rouble (\$1=27,02) ("Gating.); puch \$10,100; Date of Independence: 24% August, 1391

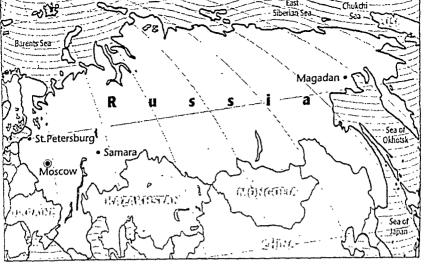
Covernment Type: Federal Papulaile; President: Vladimir Putin; PMt Mikhali Fradkov

Russia, the largest country in the world in area, stretches across the continents of Aba and Europe, it extends for over 9600 km from the Bastic Sea to the Pacific Ocean and for 4800 km, from north to south

History: Russia, an independent country since 1991, is 75% of the total area of the former Soviet Union and has 50% of its total population. About 70% of USSR's total industrial and agricultural output came from Russia.

Russia has now taken the place of the former Soviet Union in International foral Russia adopted the name 'Pusian Federation'

On December 3, 1991, Russia, Beluns and Ukraine concluded an agreement establishing a Commonwealth of independent Statos (CIS) with its headquarters in Minik. The member states are the intree founders and nine subsequent adherents. Armen a, Azerbaijan, Moldana, and the Cristia Alum republics of Kazaknstun, Krighdia, Turritum.



Turkmeni-stan and Uzbekistan and Georgia. The Russian Federation consists of 21 Re-

publics, 6 Territories, 49 Provinces, 10 Autonomous Areas, 2 Cities of federal status (Moscow & St.Petersburg) and the Jewish Autonomous Region (Birobijan).

In 1993, a drive to privatise thousands of large and medium-sized state-owned enter-

prises was launched. President Yeltsin narrowly survived an impeachment vote by the Congress of Deputies in March. In Oct.,

Yeltsin ordered the army to attack and seize the parliament building, where anti-Yeltsin legislators had barricaded themselves. About

140 people were killed in the fighting. In Feb. '94, parliament amnestied those arrested after the occupation of the parliament building.

In July '94, Russia joined NATO's partnership for peace plan of military cooperation with former communist states. In May, '96, presidents of Russia, Belarus, Kazakhstan and Kyrgyzstan signed a treaty to boost closer links among them.

Chechen separatists have been a major problem since the winter of 1994-'95 when Russian troops were sent in to crush Chechnya's secessionist leadership. In August, '96, the war ended with an agreement between the government and the separatists to defer the decision on whether Chechenya should be independent until Dec. 31, 2001. Fighting resumed and Russia suffered heavy losses.

In Apr. '97, the presidents of Russia, Kazakhstan, Kyrgyzstan, Tajikistan and China signed a demilitarisation accord providing for considerable troop reductions along their 7000 km. common border.

In Aug.97, Russia announced the dismantling of all rocket missiles targeted on western strategic centres. Russia's army was to shrink from 1.8m. to 1.2m.

Russia attended G-8 summit as a full-fledged member.

Economy: Grain, cotton, potatoes, sugar beets, sunflower, are the main agricultural products. Natural resources include in a coil, gold, platinum, copper, zinc, Russia also has the world's large timber. Russia's gold industry is ond largest. Steel mills, huge dan

gas industries and electric rail ro-

transformed parts of Siberia. The Russian fishing fleet, operating from the Arctic waters to the Pacific, is one of the biggest in the world.

Recent Events: In January 2006, Russia briefly cut supply of gas for Ukrainian use in row over prices. Putin signed controversial law giving authorities extensive new powers to monitor the activities of non-governmental organisations and suspend them if they were found to pose a threat. In February, at least a dozen Chechen rebel fighters and several members of Russian security forces were killed in gun battle in village in Stavropol region, just across border from Chechnya. In July, Rouble became a convertible currency. Russia's most-wanted man, Chechen warlord Shamil Basayev, was killed in what the security services described as a special operation

Mission in India: Embassy of the Russian Federation, Shantipath, Chanakyapuri, New Delhi - 110 021. Tel: 26873800, 26873802; Fax: (9111) 26876823.

E-mail: indrusem@del2.vsnl.net.in (Embassy); indconru@del2.vsnl.net.in (Consular Deptt.); Web: vww.india.mid.ru

Consulate: Consulalte General of the Russian Federation in Mumbai: 42, Nepean Sea Road, "Palm Beach", Mumbai-400 006; Ph: 022-2363-36-27, 2-363-36,28, 2-368-14-31, E-mail: consulGmtnl.ne.in

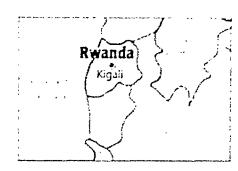
Consulate: Consulate General of the Russian Federation in Chennai, 14, Santhome High Road, Chennai-600 004, Tel: 091-044-498-2320/498-2330, E-mail: madrasrus Gysnl.net

Indian Mission in Russian Federation: Embassy of India, 6-8 Ulitsa Vorontsovo Polye (Obukha), Moscow (Russia). Tel: 00-7-095-9171841; Fax: 00-7-095-9752337.

E-mail.indembas@rseneubh.msk.ru

146. Rwanda

(Republic of Rwanda) Republica yu Rwanda



Butare; Area: 26,338 sq km; Population: 8,648,246; Languages: French, Kinyarwanda and Swainili; Religions: Roman Catholic-56.5%, Protestant-26%, Adventist-11.1%, Muslim-4.6%, indigenous beliefs-0.1%, none-1.7%; Literacy: 70.4%; Life Expectancy: 47.3; Currency: Franc (\$1=639.26); p.c.i: \$1,500; Date of Independence: 1# July, 1962

Government Type: Republic; President: Major Gen. Paul Kagame.PM:Bernard Makuza.

History: Formerly part of the Belgian Trusteeship of Ruanda - Urundi in east-central Africa, the Republic of Rwanda became independent on July 1, 1962. One of the most densely populated countries of Africa, it is known as "the nation of a thousand hills" because of its mountainous nature.

Rwanda presents a dismal scene of ethnic fighting. For centuries, the Tutsi dominated the Hutus (90% of the population). A civil war of 1959 put an end to Tuta power. Many Tuta went into exile. In 1963, Tuta exiles invaded, but it resulted in a large scale massacre of Tutsi. After a coup attempt by Tutsi exiles in 1990, a multi-party democracy was established. Ethnic strile resumed and a peace accord between the goverment and the Tuta rebels was signed in August, 1993. Thousands had idled and the war had led to one of world's biggest imprements of refusions President Juvenal Habyarimana, along 44 to the Burundi President, died in a suspicious plane crash in April, 1994. Ethnic visionee

refugees in Western Rwanda crossed into Zaire as Tutsi rebels held 2/3 of the country. In July, the Tutsi-dominated Rwandan Patriotic Front named a Hutu, the new President. About one million Hutu refugees flooded back to Rwanda from Tanzania and Zaire in Nov. '96. Paul Kagame (sworn in Apr.2000) is the first Tutsi president of Rwanda.

Economy: The economy is agricultural and remains mainly at the subsistence level. Coffee, cotton, sorghum, cassava and sweet potatoes are the principal crops. Minerals include tin ore, tungsten, tantalite, gold and beryl. Industry is undeveloped. Food manufacturing is the chief industrial activity. Livestock raising is widespread and hides and skins are exported.

In July, 2000 an international panel set up by OAU concluded that the genocide in which 8 lakhs Tutsi people were killed was avoidable, and the Security Council didn't try to stop it.

Recent Events: In January 2006, Rwanda's 12 provinces were replaced by a smaller number of regions with the aim of creating ethnically-diverse administrative areas.

Mission in India: Embassy of the Republic of Rwanda, 41, Paschimi Marg, Vasant Vihar, New Delhi - 110 057. Tel: 5166 1604; Fax: 5166 1605.

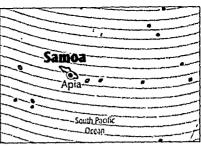
E-mail: rwandaembassy@yahoo.com and ambadelhi@minaffet.gov.rw

Indian Mission in Rwanda: Honorary Consulate General of India, M/S Sulfo Rwanda Industries, Rue de Lac Ihema, B.P. 90, Kigali, Rwanda. Tel:00-250-74556; Fax:00-250-74290.

147. Samoa (formerly Western Samoa)

(Independent State of Samoa) Malotuto'atasio Samoa i Sisifo

Capital: Apia; Area: 2835 sq km; Population: 176,908; Languages: Samoan and English;



Religions: Christian-99.7%; Literacy: 99.7%; Life Expectancy: 71; Currency: Tala (\$1=2.78); p.c.i: \$ 5,600; Date of Independence: 1ª January, 1962.

Government Type: Constitutional Monarchy; Head of State for Life: Malietoa Tanumafili II. PM: Tuilaepa Sailele.

History: Samoa in South Pacific consists of the two large islands of Savaii and Upolu, the small islands of Manono and Apolima and several uninhabited islets lying off the coast. The International Dateline passes very near Samoa. Eastern Samoa (American Samoa) with its capital at Fagotogo remains a dependency of the USA. (Area: 197 sq.km.).

Aformer German protectorate, Samoa was administered by New Zealand from 1920 to 1961. Became fully independent on Jan.1, 1962. Has close links with New Zealand, on which it is dependent for military and economic assistance.

Economy: The economy is mainly agricultural. The chief products are fish, copra, bananas, taro, sweet potatoes, bark cloth and mats.

148. San Marino

(Most Serene Republic of San Marino)
Capital: San Marino; Other Large Cities:
Seravalle, Borgo Maggiore; Area: 61 sq km;
Population: 29,251; Languages: Italian; Religions: Roman Catholic; Literacy: 96%; Life Expectancy: 81.71; Currency: Euro (\$1=0.79);
p.c.i: \$ 34,600; Date of Independence: 3rd September, 301



Government Type: Republic

Captains-Regent: Two co-regents appointed every six months from the Great and General Council of 60 members elected every 5 years.

History: The Republic of San Marino is a landlocked state in central Italy, 20 km. from the Adriatic.

It claims to be the oldest state in Europe, having been founded in A.D. 301, and the oldest republic in the world. A communist-led coalition ruled 1947-'57, a similar coalition ruled 1978-'86. San Marino has had a treaty of friendship with Italy since 1862.

Economy: The principal products are wheat, wine and olives. Industries include textiles, ceramics, cement, paper, postage stamps, leather and woollen goods. Tourism is the major source of revenue.

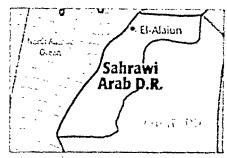
A person born in San Marino remains a citizen and can vote no matter where he lives. Women were granted the vote in 1959.

Mission in India: Honorary Consulate General of the Republic of San Marino, 15, Aurangzeb Road, New Delhi-110011. Tel: 23015850. Fax:23019677.

E-mail: bhaims @ndb.vsnl.net.in

149. Sahrawi Arab Demo. Rep. (S.A.D.R.)

Capital: El-Alaiun; Area: 266,769 sq.km; Population: 228,100; Languages: Arabic; Religions: Islam.



President: Mohammed Abdel Aziz; PM: Mohamm-ed Lamine.

History: The Saharawi Arab Democratic Republic set up by the Polisario Front, a liberation movement in Western Sahara, is a territory that came under Morocco's control after Spain withdrew. Algeria supported the Polisario-led struggle for independence. India accorded recognition to the new government on Oct. 1, 1985.

The UN will conduct a referendum in Western Sahara on whether the territory should become independent or remain part of Morocco.

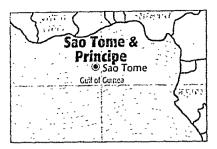
Economy: Western Sahara has rich phosphate deposits. Most of the land is desert.

Recent Events: A UN Security Council resolution has supported a proposal that Western Sahara become a semi-autonomous region of Morocco for a transition period of upto 5 years, after which the Sahrawis would decide on independence or integration. This compromise was seen as addressing Moroccan concerns, in a bid to entice it to agree to a referendum. Polisano signalled its readiness to accept, but Morocco rejected the plan, citing security concerns.

150. Sao Tome & Principe

(Democratic Republic of Sao Tome and Principe)

Capital: Sao Tome; Area: 964 sq km; Population: 193,413; Languages: Portuguese, native dialects like Fang; Religions: Cathology 70.3%, Evangelical-3.4%, New Ap.



2%, Adventist-1.8%, other-3.1%, none-19.4%; Literacy: 79.3%; Life Expectancy: 67.31; Currency: Dobra (\$1=8,825); p.c.i: \$1,200; Date of Independence: 12th July, 1975.

Government Type: Republic; President: Fradique De Menezes; PM: Tome Vera Cruz.

History: These two islands, with a few other nearby islets, lie in the Gulf of Guinea, about 200 km. from Gabon. Situated north of the equator, these islands have hot steaming weather in the summer, but plenty of rainfall. Forests cover 60% of the land area. The largest of the islands is Sao Tome, on which stands Sao Tome, the capital and chief port.

These islands were under the Portuguese until 1975 when they became independent.

Economy: Today, the country's economy is geared almost exclusively to the production of agricultural export commodities, especially cocoa (78% of exports) and coconut products. Fishing is an important activity. Sao Tome has to import most of its food. There is virtually no manufacturing industry except soap, soft drinks etc.

151. Saudi Arabia

(Kingdom of Saudi Arabia) al-Mamlaka al 'Araiya as-Sa'udiya

Capital: Riyadh (Royal) and Jeddah (Administrative); Other Large Cities: Mecca, Damman, Medina; Area: 2,250,070 sq km; Population: 27,019,731; Languages: Arabic; Religions: Muslim-100%; Literacy: 78.8%; Life Expectancy: 75.67; Currency: Rial (SAR)

(\$1=3.75); p.c. i: \$ 12,800; Date of Independence: 23rd September, 1932

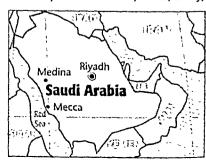
Government Type: Monarchy; Head of State & Govt: Abdallah bin Abd al-Aziz Al Saud.

History: Saudi Arabia, named after the ruling dynasty of Sa'ud, occupies nearly fourthfifths if the Arabian Peninsula.

In the province of Hejaz are Medina and Mecca (the religious capital), the holy cities of Islam. The mosque of the Prophet in Medina enshrines the tomb of Mohammed, who died in the city in 632. More than 600,000 Muslims from about 60 nations pilgrimage to Mecca, the Prophet's birthplace, every year. Of the total population, 6 m. are foreigners.

The Saudi king, whose official title is custodian of the Two Holy Mosques (at Mecca and Medina), rules as absolute monarch. His heir and deputy, the crown prince, is selected from among the Sa'ud family by its leading members in consultation with the ulama, or supreme religious council. The king governs according to Islamic law, choosing a council of ministers, many of whom are Sa'uds.

Economy: Saudi Arabia has the largest reserves of petroleum in the world (25% of the proved reserves), ranks as the largest exporter of petroleum, and plays a leading role in OPEC. The petroleum sector accounts for roughly 75% of budget revenues, 45% of GDP, and 90% of export earnings. Chief agricultural products are dates, wheat, barley,



fruit, hides and wool. Industry: Petrochemicals, fertilisers, steel, gas, plastics. New industrial cities are being built at Jubail and Yanbu on the Gulf.

Recent Events: In January 2006, 363 Hajj pilgrims were killed in a crush during a stone-throwing ritual in Mecca. In a separate incident, more than 70 pilgrims were killed when a hostel in the city collapsed. In February, the government said it had foiled a planned suicide attack on a major oil-processing plant at Abqaiq. In June, six men allegedly linked to al-Qaeda were killed in a shootout with police in Riyadh, the latest of several incidents involving Islamist militants.

Mission in India: Royal Embassy of Saudi Arabia, D-12, N.D.S.E., Part II, New Delhi-110 049. Tel: 26252470-71, 26256419; Fax: 26259333, 26257082.

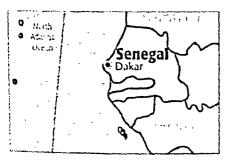
Indian Mission in Saudi Arabia: Embassy of India, B-1, Diplomatic Quarter, P.B.No. 94387, Riyadh-11693, Saudi Arabia. Tel: 00-966-1-4884144, 4884691/92; Fax: 00-966-1-4884750.

E-mail:ieriyadhadmn@shabakah.net.sa

152. Senegal

(Republic of Senegal)

Capital: Dakar; Other Large Cities: Thies, Kaolack, St. Louis; Area: 196,162 sq km; Population: 11,987,121; Languages: French,Wolof and other native tongues; Religlons: Muslim-9496, indigenous beliefs-196, Christian-596 (Mostly Roman Catholic); Lit-



eracy: 40.2%; Life Expectancy: 59.25; Currency: CFA Franc (\$ 1=518.98); p.c.l: \$ 1,800; Date of Independence: 4th April, 1960.

Government Type: Republic; President: Abdoulaye Wade; PM: Macky Sall.

Senegal lies on the West African bulge. Dakar, the capital, is the westernmost point in Africa.

History: Formerly a French colony, Senegal became a self-governing republic in 1960. Senegal was a one party state from 1966 to 1974, when a pluralist system was re-established. French political and economic influence is strong. In 1981, Senegal signed an agreement with the Gambia for a confederation of the two states under the name Senegambia. The confederation, established on Feb. 1, 1982, was dissolved on Sept.21, 1989.

Economy: Agriculture and livestock-rearing are the chief occupations. Crops: Peanuts, millet, rice. There are large deposits of iron ore and phosphate. Industry: Food processing, chemicals, textiles and fishing. A long drought brought famine in 1972-73 and in 1978.

Abdoulaye Wade became President in March, 2000, succeeding Abdou Diouf.

Mission in India: Embassy of the Republic of Senegal, C-6/11, Vasant Vihar, New Delhi-110057. Tel:26147687. Fax:24103743

Indian Mission in Senegal: Embassy of India, 5, Avenue Carde, First Floor, BP 398, Dakar, Senegal. Tel: 00-221-8225875, 8210979; Fax: 00-221-8223585.

E-mail:indiaemb@telecomplus.sn

153. Serbia

Capital: Belgrade; Other Large Citles: Titograd, Novisad; Area: 88,361sq. km.; Population: 9,396,411; Languages: Serbo-Croatian (official) 9596, Albanian 5%; Religions: Serbian Orthodox, Muslim, Roman Catholic, Protestant; Literacy: 96.4%; Life Ex-



pectancy: 74; Currency: New Dinar (\$1=57.61); p.c.i: \$ 4,400; Date of Independence: 27th April 1992.

Government Type: Republic; President (also Head of Govt.): Boris Tadic.

History: The kingdom of Serbs, Croats, and Slovenes was formed in 1918; its name was changed to Yugoslavia in 1929. Occupation by Nazi Germany in 1941 was resisted by various paramilitary bands that fought themselves as the invaders. The group headed by Marshal Tito took full control upon German expulsion in 1945. In the 1990s, Yugoslavia began to unravel itself along ethnic lines. Slovenia, Croatia and the former Yugoslav Republic of Macedonia all declared their independence in 1991; Bosnia and Hezegovina in 1992. In April 1992 Serbia and Montenegro announced the formation of a new Yugoslav Federation and invited Serbs in Croatia and Bosnia-Herzegovina to join. The United Nations imposed economic sanctions on Serbia when Serbian Military and financial aid poured into the Bosnian Serb campaign of "ethnic cleansing". In 1995 Milosevic signed the Dayton peace accord, which ended the Bosnian War. In 1996 local elections, the Serbian Socialist Party was defeated in many areas. In 1997 Milosevic was forced to acknowledge the poll results after massive demonstrations in Belgrade. He later resigned the presidency of Serbia in order to become president of Yugoslavia. In 1998 fighting erupted

in Kosovo between Albanian nationalists and Serbian forces. In 1999, following the forced expulsion of Albanians from Kosovo, Nato launched an airwar against Serbia and Montenegro to prevent a humanitarian crisis. Federal elections in the fall of 2000, brought about the ouster of Milosevic and installed Vojislav Kostunica as president. In 2002, the Serbian and Montenegran components of Yugoslavia began negotiation to forge a closer relationship. These talks became a reality in February 2003 when lawmakers restructured the country into a loose federation of two republics called Serbia and Montenegro.

The constitutional charter of Serbia and Montenegro included a provision that allowed either republic to hold a referendum after three years that would allow for their independence from the state union. In the spring of 2006, Montenegro took advantage of the provision to undertake a successful independence vote enabling it to secede on 3rd June. Two days later, Serbia declared that it was the successor state to the union of Serbia and Montenegro.

Autonomous provinces within Serbia

Kosovo (Capital: Pristina; Area: 10887 sq.km. Population: 2m. Vojvodina (Capital: Novi Sad, Area: 21,506 sq.km; Population: 2,050,000).

Economy: Agricultural products: Maize, grains, sugar beets, wheat, tobacco, livestock and timber. Industry: Electricity, coal, iron, steel, cement, motor vehicles, wood products and tourism.

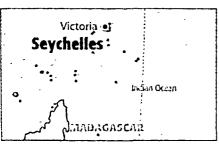
Mission in India: Embassy of Serbia & Montenegro, 3/50 G Niti Marg, Chanakyapuri, New Delhi-110 021. Tel: 26873661/26872073; Fax: 26885535.

E-mail:zvezda@del2.vsnl.net.in

Indian Mission in Serbia & Monten-egro: Embassy of India, Vase Pelagica 30, Senjak, Belgrade. Tel: 00-381-11-3692431; Fax: 00-381-11-3692435.

154. Seychelles

(Republic of Seychelles)



Capital: Victoria; Area: 308 sq km; Population: 81,541; Languages: Creole, English and French; Religions: Roman Catholic-82.3%, Anglican-6.4%, Seventh Day Adventist-1.1%, other Christian-3.4%, Hindu-2.1%, Muslim-1.1%, other non-Christian-1.5%, unspecified-1.5%, none-0.6%; Literacy: 91.9%; Life Expectancy: 72.08; Currency: Rupee (\$1=5.52); p.c.i: \$7,800; Date of Independence: 29th June, 1976.

Government Type: Republic; President & PM: James Michel.

History: Situated in western Indian Ocean, over 1100 km. off NE of Madagascar, Seychelles is a group of about 115 lovely islands. Half the islands are coral-line and the other half granitic. The principal island is Mahe on which the capital Victoria is situated. Praslin and La Dique are two other islands. Seychelles was entirely uninhabited when the French established settlements there in 1768. It was ruled as part of Mauritius from 1814. Britain seized the group of islands in 1794. In 1903, it became a separate colony. Independence was declared on June 29, 1976, and Seychelles became a one-party state in 1979 In June, 1993, a new constitution provided for a multi-party state.

The population of Seychelles is of mixed

origin, a unique blend of European, African, Indian and Chinese races. Seychelles is renowned for its fine beaches, attractive scenery and pleasant climate.

Economy: Agriculture and fishing are major occupations. Chief crops: Coconuts, cinnamon, tea, vanilla and patchouli. Industry: Food processing and fishing. Tourism is a

major contributor to gross domestic product.

Mission in India: Embassy of Seychelles
Stationed at Kuala Lumpur.

Honorary Consulate of Seychelles, Qutab Ambience (at Qutab Minar), H-5/12, Mehrauli Rd, New Delhi-110 030. Tel: 51666123: Fax: 51666126.

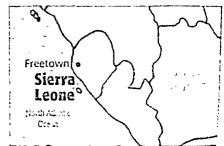
E-mail: sbm@bharti.com

Indian Mission in Seychelles: High Commission of India, Le Chantier, Post Box No. 488, Victoria, Mahe, Seychelles Tel 00-248-224489; Fax: 00-248-224810

E-mail·hicomind@seychelles net

155. Sierra Leone

(Republic of Sierra Leone)



Capital: Freetown Area: 71,740 sq km; Fromlation: 6,005 250 Languages: English and tribal. Religions: Muslim-60%, Indigetionbeliefs-30% Christian-10%; Literacy and the Life Expectancy: 40,22; Currency and (\$1=2,950), p.c. (\$ 800; Date or and dence: 27% April, 1961.

Covernment Type: Consumate racy. Head of State & Cod & Anmed Tejan Kabban.

History: Sierra Leone (meaning mountain of the lion) was the name originally given to this area by Portuguese sailors mainly on account of the thunder-storms around its coastal peaks. It lies on the West African bulge, between Guinea and Liberia.

Formerly under British rule, Sierra Leone became independent in 1961 and a republic in 1971.

A military coup in May '97 overthrew the government of President Ahmad Tejan Kabbah. In March, '98, the junta headed by Lt. Col. Johnny Paul Koroma was ousted by Nigeria - led troops acting in the name of ECOWAS, and President Kabbah was reinstated. In July, a UN military observer mission was authorized by the Security. Council. The 70-member team was to help West African peacekeepers to demobilise remnants of the former ruling junta.

The country, after nearly nine years of civil war, lies in ruins today. Nearly 10% of the population have fled to neighbouring countries. In UNDP's list of 174 countries (1999), Sierra Leone was the last. The country lost hundreds of lives in rebellion in May, 2000.

Economy: The economy is based on agriculture and mining. Main crops: Cocoa, coffee, palm kernels, rice, ginger. Minerals: Diamonds, gold and bauxite. Industry: Light engineering.

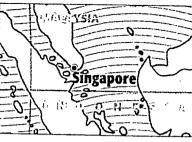
Recent Events: In April 2006, Charles Taylor, the former Liberian President faced war crimes charges in a UN-backed court in Sierra Leone over his alleged role in the country's civil war.

Mission in India: Embassy of Sierra Leone Stationed at Tehran.

Indian Mission in Sierra Leone: Honorary Consulate General of India, Post Box No. 26, 5, Rawdon Street, Freetown, Sierra Leone. Tel: 00-232-22-22452; Fax: 00-232-22-226343.

156. Singapore

(Republic of Singapore)



Capital: Singapore city; Area: 616.3 sq km, Population: 4,492,150; Languages: Malay, Chinese, Tamil and English; Religions: Buddhist (Chinese), Muslim (Malays), Christian, Hindu, Sikh, Taoist, Confucianist; Literacy: 92.5%; Life Expectancy: 81.71; Currency: Singapore Dollar (\$1=1.69); p.c.i.: \$ 28,100; Date of Independence: 9th August, 1965.

Government Type: Republic; President: S.R. Nathan, PM: Lee Hsion Loong.

Singapore is one of the smallest, most density populated and most prosperous countries in the world. Most of the population live on Singapore island; the rest inhabit 54 neighbouring islets.

History: Modern Singapore was founded in 1819 by Sir Thomas Stamford Raffles of the British East India Company, and later became a British crown colony. It was incorporated into the Federation of Malaysia in 1963, but two years later left the federation to become an independent Republic. The population of Singapore is composite. The Chinese comprise 77%, Malays 15% and Indians 6%. Lee Kuan Yew was PM for 31 years (1959-90). S.R. Nathan, a Singaporean of Indian ethnicity was elected unopposed as the country's sixth president in Aug. '99.

Economy: The country is an entrepot for Malaysia and other southeast Asian states. It is one of the world's largest ports. The chief exports are rubber and tin. Industries include tin smelting, rubber, lumber ship-building,

est oil refining centre in Asia) machinery, chemical products, food, tourism (7.52 m. tourists in 2001) and banking. Standards in health, education and housing are high. Only about 1.7% of the total area is used for farming. Most food is imported.

textiles and oil refining, (Singapore is the larg-

On January 1, 1996, Singapore was graduated to the status of a 'developed country' by the Organisation for Economic Cooperation and Development (OECD). In May '97,

the four Asian 'tigers' (Singapore, Hong Kong, Taiwan and S.Korea) were added to the industrialised countries by IMF. Recent Events: • Lee Hsien Loong's ruling

People's Action party won general elections which were seen as the first real test of the prime minister's popularity.

Mission in India: Singapore High Commis-

sion, E-6, Chandragupta Marg, Chanakyapuri, New Delhi-110 021. Tel: 26885659, 26886506; Fax: 26886798.

E-mail: singhnd@giasd101.vsnl.net.in; Web: www.mfa.gov.sg/newdelhi Consulate: Consulate General of the

Consulate: Consulate General of the Singapore in Mumbai: 101, 10th Floor, Maker Chambers IV. 222, Jammnalal Bajai

Chambers IV, 222, Jammnalal Bajaj Road, Nariman Point, Mumbai-400 021; Ph: 001-91 (22) 22043205, 001-91 (22) 22043209

E-mail: MFA_Mumbai@mga.gov.sg

Indian Mission in Singapore: High Commission of India, "India House", 31, Grange Road, P.O. Box No. 92, Singapore-912304.

Tel: 00-65-7376777; Fax: 00-65-7326909. E-mail:indiahc@pacific.net.sg

Website: http://www.embassyofindia.com

157. Slovakia

(Slovensko)

Capital: Bratislava; Other Large Cities: Banska, Bystrica, Zilina; Area: 49,036 Sq. km; Population:5,439,448; Languages: Slovak, Magyar; Religions: Roman Catholic-68.9%, Protestant-10.8%, Greek CatholicLiteracy: 100%; Life Expectancy: 74.73; Currency: Koruna (Crown) (\$1=30.13); p.c.i: \$16,100; Date of Independence: 1st January, 1993.

4.1%, other or unspecified-3.2%, none-13%;

Government Type: Parlimentary Democracy; President: Ivan Gasparovic; PM: Robert Fico.

History: The Czechoslovak federal republic was dissolved on Dec. 31, 1992, and the two new republics of Czech and Slovakia were born on Jan. 1, 1993. (See Czech Republic for details).

Jan. 1, 1993. (See Czech Republic for details).
Słovakia is bounded by Poland, Ukraine,
Czech republic, Austria and Hungary.

In the former Czechoslavakia, Slovakia was less industrialised than the Czech land.

Economy: Wheat, barley, potatoes, vegetables, fruits, sugarbeet are the main agricultural products. In 1993, agriculture produced 20% of GDP.

Industry: Metallurgy, engineering, chemical, textile, glass. Main exports are chemicals, plastics, tractors and electronics items. Minerals: Coal, magnesite, metallic ore.

The Danube is the most important river. The underground ice and icicle caves are great tourist attractions, one of the lar-gest being the Demanovska Cave of Freedom.

being the Demanovska Cave of Freedom.

Recent Events: • Court intervened to end strike by doctors and nurses over pay and sell-

Mission in India: Embassy of the Slovak Republic, 50-M, Niti Marg, Chanakyapuri, New Delhi-110021. Tel: 24101015, 26111075; Fax: 26877941.

offs in the healthcare sector.

E-mail: skdelhi@giasd101.vsnl.net.in



Indian Mission in Slovak Republic: Embassy of India, Radlinskeho 2, 81002, Bratizlava, Slovak Republic. Tel: 00-421-7-52931700 (filmes): Fax: 00-421-7-5361690

E-mail:eindia@computel.sk Website : www.eindia.sk

158. Slovenia

(Republic of Slovenia)



Capital: Ljubljana; Other Large Cities: Maribor, Celje, Kranj; Area: 20,251 sq.km; Population: 2,010,347; Languages: Slovenian; Religions: Catholic -57.8%, Orthodox-2.3%, other Christian-0.9%, Muslim-2.4%, unaffiliated-3.5%, other or unspecified-23%, none-10.1%; Literacy: 99.7%; Life Expectancy: 76.33; Currency: Tolar (\$1=189.6); p.c.i.: \$21,600; Date of Independence: 25th June, 1991.

Government Type: Republic; President: Dr. Janez Drnovsek; PM: Janez Jansa.

Ethnic breakdown: Slovenes - 91%. others- 9%.

History: The Slovenes settled in their current territory in 6th to 8th centuries but fell under German domination in the 9th century. After 1848, the struggle for unification began. In 1918, Yugoslavia was established, and the majority of the Slovenes entered the new state, which became the Kingdom of the Serbs, Croats and Slovenes. Slovenia, the most affluent Yugoslav republic, declared independence on June 25, 1991. In Feb. 1992,

EC granted recognition and in May, it was admitted to the UN. It is Croatia's main ally. Slovenia joined the European Union on May 1, 2004

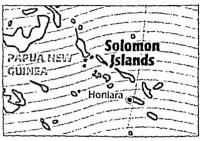
Economy: Wheat, potatoes, maize, timber, livestock are the agricultural products. Industry: Steel, textiles, electricity, motor vehicles, sulphuric acid, bauxite.

Mission in India: Embassy of the Republic of Slovenia, 46, Poorvi Marg, Vasant Vihar, New Delhi-110 057. Tel: 26151249; Fax: 26151247.

E-mail:vnd@mzz-dkp.sigov.si

159. Solomon Islands

Capital: Honiara; Area: 29,758 sq. km.; Popu-



lation: 552,438; Languages: English, Pidgin English, local languages; Religions: Church of Melanesia-32.8%, Roman Catholic-19%, South Seas Evangelical-17%, Seventh-Day Adventist-11.2%, United Church-10.3%, Christian Fellowhip Church-2.4%, other Christian-4.4%, other-2.4%, unspecified-0.3%, none-0.2%; Literacy: 54%; Life Expectancy: 72.91; Currency: Dollar (\$1=7.22); p.c.i.: \$1,700; Date of Independence: 7th July, 1978

Government Type: Parliamentary Democracy; Gov. Gen.: Nathaniel Waena.; PM: Manasseh Sogavare.

History: The Solomon Islands are in the South West Pacific and lie to the east of Papua New Guinea. Originally a British Protectorate, it achieved independence in 1978. It is a

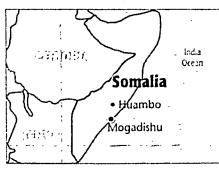
constitutional monarchy with the British Sovereign as Head of State.

The population is predominantly Melanesian.

Economy: Copra is the main cash crop and rice the chief food crop. Other crops: Bananas, yams. Industry: Fish canning, rice milling, food, tobacco. Fish is a vital element in food and an export item.

160. Somalia

(Somalia Democratic Republic)



Capital: Mogadishu; Other Large Cities: Hargeisa, Baidoa, Burao; Area: 637,657 sq km; Population: 8,863,338; Languages: Somali, Arabic, English, Italian; Religions: Sunni Muslim; Literacy: 37.8%; Life Expectancy: 48.47; Currency: Shilling (\$1=1,340); p.c.l: \$ 600; Date of Independence: 1st July, 1960.

Government Type: In transition; President: Abdullahi Yusuf Ahmed; PM: Ali Muhammad Ghedi.

History: A republic in the Horn of Africa, Somali Democratic Republic was formed by the union of the former Italian Somaliland and the British Somaliland on July 1, 1960. Somalia is essentially a pastoral country, with 80% of people depending on livestock-rearing. It has 40.1 m livestock. Half the population is nomadic.

The year 1992 saw one of the worst famines in Somalia. Ravaged by civil war, the country was in a state of anarchy. Starvation threatened 50% of the population. Over 800,000 fled to Kenya. Relief efforts were hampered by battles between rival clan factions. In Jan., 1991 President Siad Barre was toppled, ending 21 years of one-man rule. Somalia has been ruled by feud-ing warloads since the overthrow of Siad Barre.

Ali Mahdi Muhammad (United Somali

Interfactional fighting continued. A new coalition government under the chairmanship of Gen. Muhammad Farah Aidid agreed to a UN military presence to back up relief efforts to help famine victims (estimated at 1.5 to 2m.). In Dec. '92, leaders of two of the 14 warring factions, Ali Mahdi Muhammad and Muhammad Farah Aidid, agreed to a peace

plan under the aegis of the U.N.

Congress) became President in Aug. 1991.

In March, '94, the last of the 30,000 American troops who had landed in Dec.'92 left Somalia, closing a chapter in the costliest humanitarian venture in UN history. A peace accord was signed in June, '94 by 19 Somali leaders, but violence continued. In July, '96 there was heavy fighting between Gen. Aidid's forces and the opposing alliance of self-styled interim. President. Ali. Mahdi. Mohamed. Gen. Aidid died in August. Armed factions controlled different parts of the country. President. Abdiqasim. Salat. Hassan. and 245 legislators were elected in August. 2000 at a peace conference in Diibouti.

It is estimated that the war and the famine have killed at least 350,000 Somalis. UN said in Aug. '99 that a "blackhole of anarchy" prevailed in Somalia

In Somaliland an unrecognised state, and dependent from Somalia since 1991, a rugal majority voted in favour of independent from the rest of Somalia, in 2000. Real materials fought for the ports of Kirral and Bossasso. After 1991, clan-based fighting reduced the country can define fueldoms ruled by heavily after Puntland, unrecognised the source of t

clared independence from Somalia in 1998. Economy: Sugarcane, bananas, sorghum,

maize are the main crops.

Recent Eyents: In February 2006, transi-

tional Parliament met in Somalia—in the central town of Baidoa - for the first time since it was formed in Kenya in 2004. In March and May, scores of people were killed and hundreds were injured during fierce fighting between rival militia in Mogadishu. It was the

dreds were injured during herce lighting between rival militia in Mogadishu. It was the worst violence in almost a decade. In June, militias loyal to the Union of Islamic courts took control of Mogadishu and other parts of the south after defeating clan warlords. Rival Somali administrations accused each other of building up supplies of arms. The Transitional Government based in Baidoa said the Islamic courts in Mogadishu were being armed by Eritrea. The Islamic Court said

Mission in India: Embassy of the Republic of Somalia, A-7,Defence Colony, New Delhi - 110024. Tel: 24619559, 24617453. Telex: 31-65010 ESDR IN

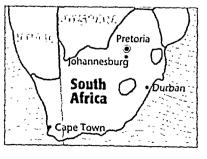
Ethiopian troops were in the country, sup-

porting the government's limited forces.

161. South Africa

(Republic of South Africa)

Capital: Pretoria (administrative); Cape Town (legislative); Bloemfontein (judicial); Other Large Cities: Durban, Johannesburg; Area: 1,223,201 sq km; Population: 44,187,637; Languages: Afrikaans, English and 9 other languages; Religions: Zion Christian-11.%, Pen-



tecostal/Charismatic-8.2%, Catholic-7.1%, Methodist-6.8%, Dutch Reformed-6.7%, Anglican-3.8%, other Christian-36%, Islam-1.5%, other-2.3%, unspecified-1.4%, none-15.1%; Literacy: 86.4%; Life Expectancy: 42.73; Currency: Rand (\$1= 6.845); p.c.i:\$12,000; Date of Independence: 31st May, 1910.

Government Type: Republic; Head of State & Govt (President): Thabo M. Mbeki.

History: The Republic of South Africa lies at the southern tip of the continent of Africa. S. Africa includes the original white colonies of the Cape of Good Hope, Natal, Transvaal and Orange Free State. Formerly known as the Union of South Africa (formed in 1910), it became a republic after leaving the Commonwealth in May 1961.

The country adopted a policy of Apartheid, the separate development of racial groups. Self-government was given to Transkei, Bophuthatswana, Venda and Ciskei. There were six other homelands which were territories with a degree of self-government but still forming the part of the Republic, Kwa Zulu, Gazankulu, Lebowa, Qwaqwa, Ka Ngwane and Kwa Ndebele. The homelands ceased to exist when apartheid ended.

The year 1990 witnessed softening of the Whites' attitude towards the 26 million agitating blacks. The government lifted the ban on African National Congress, the primary black group fighting to end white minority rule, and its leader 71-year-old Nelson Mandela was released from prison after 27 years of confinement.

However, events of 1992 and 1993 once again worsened the situation and hopes of an end to the South African tragedy began thinning. Sporadic factional violence continued between supporters of ANC and the Zulu Inkatha Party.

Constitutional talks began in Dec. '91but killings interfered, and talks re-opened in Apr. '93.In Dec. parliament adopted a transitional

constitution paving the way for a new multiracial parliament to be elected in April,'94. Thus the first general election in S. Africa on the basis of a one-person one-vote system took place on Apr. 26-28 and ANC got 62.25% of votes. On May 10, Mandela was sworn in (the first black) President. South Africa was again admitted to OAU, NAM, Commonwealth and UN General Assembly. A new South Africa was born.

The nine new provinces of South Africa are the Western Cape, the Eastern Cape, Kwazulu-Natal, the Northern Cape, Free State, North-West, Gauteng, Eastern Transvaal, and Northern Transvaal.

On May 8, 1996, South Africa's Constitutional Assembly adopted a post-apartheid constitution.

Economy: South Africa is the richest African country. The major agricultural products are cotton, wheat, maize, tobacco, sugarcane, citrus fruits and dairy products. With vast mineral resources, South Africa is the biggest gold and diamond producing country in the world and one of the biggest producers of uranium. About 47 per cent of the world's total production of gold is from South Africa. Other minerals include coal, copper, tin, manganese, iron, lead and chrome. Manufacturing industries include heavy engineering, chemicals, textiles, steel, plastic and food processing.

South Africa is the only country in the world which, having exploded a nuclear device with US collaboration renounced the nuclear path subsequently and signed both NPT and CTBT. The Truth Commission (1995) headed by Desmond Tutu investigated human rights abuses under apartheid and a report was submitted.

On July 18, 1998, Nelson Mandela married Graca Machel. He retired in June, '99. Thabo Mbeki took over on June 16.

Recent Events: In May 2006, former Deputy President Jacob Zuma was acquitted

of rape charges by the High Court in Johannesburg.

Mission in India: High Commission of the Republic of South Africa, B 18, Vasant Marg, Vasant Vihar, New Delhi-110 057, Tel: 2614 9411-19; Fax: 2614 3605.

E-mail:sahcvisa@now-india.net.in (Visa); highcommissioner@sahc-india.com (High Commissioner).

Website: www.sahc-india.com

Indian Mission in South Africa: High Commission of India, 852, Schoeman Street, Arcadia-0083, Pretoria, South Africa. Tel: 00-27-12-3425310. E-mail:dhc@iafrica.com

162. Spain

(Espana)

Capital: Madrid; Other Large Cities: Barcelona, Valencia, Seville; Area: \$04,750 sq km; Population: 40,397,842; Languages: Spanish, Catalan, Basque, Galician; Religions: Roman Catholic-94%, others-6%; Literacy: 97.9%; Life Expectancy: 79.65; Currency: Euro (\$1=0.79); p.c.i.: \$25,500; Date of Independence: 1492.

Government Type: Parliamentary Monarchy; Head of State: King Juan Carlos I. PM: Jose Luis Rodriguez Zapatero.

History: With the discovery of America for Spain by Columbus in 1492, Spain became a great colonial empire. After the defeat of the Spanish Armada by England in 1588, Spain shrunk into a minor continental power. In



1939, it passed under the dictatorship of Gen. Franco. On Franco's death in 1975, Spain became a constitutional monarchy. In 1981, there was an unsuccessful coup attempt. The Socialist Workers' Party won four consecutive general elections from 1982 to '93. In 1996, a coalition of conservative and regional parties came to power. Spain is one of the 25 members of the European Union.

In 1980, Catalonia and the Basque country were given autonomy. Basque extremists have continued their campaign for independence. The moderate nationalist Basque party, PNV emerged triumphant in May, 2001 elections in Basque province. Basque voters made it clear that they neither favour ETA's terror campaign nor approve of Govt's no-dialogue stand.

Economy: The economy (\$828 b.) is the ninth largest in the world. Contribution of farming and fishing to overall GDP is about 4% only (This was 65% in the 60s), industry contributes 31%., and services 65%.

Main crops are cereals, grapes, olives, vegetables and fruits. Industries include chemicals, machine tools, automobiles, ship-building, steel, textiles and processed foods, paper, cement.

Recent Events: In January 2006, Lt. Gen. Jose Mena Aguado was sacked as head of army ground forces after suggesting that the military might take action in Catalonia if the region gained too much autonomy. In March, Eta declared ceasefire. In June, voters in Catalonia backed proposals to give the region greater autonomy as well as the status of a nation within Spain. In July, dozens of people were killed in an underground train crash in the eastern city of Valencia.

Mission in India: Embassy of Spain, 16, Sunder Nagar, New Delhi-110003. Tel: 24359004-7; Fax:24359040, 24359008.

E-mail:embspain@vsnl.com

Consulate: Mumbai: Tel: 22874797, Fax: 22043625; Calcutta: Tel: 24695954, Fax:

24691283, 24692143; Chennai: Tel: 24942008, Fax: 24616978.

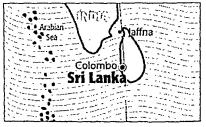
Indian Mission in Spain: Embassy of India, Avendia Pio XII 30-32, 28016, Madrid, Spain. Tel: 00-34-911-3450406, 3450265; Fax: 00-34-91-3451112 (Embassy).

E-mail:comind@accessnet.es

Website: http://www.visualware.es/india

163. Sri Lanka

(Democratic Socialist Republic of Sri Lanka) Sri Lanka Prajathanthrika Samajavadi Janarajaya



Capital: Colombo; Other Large Cities: Kandy, Jaffna, Galle; ; Area: 65,610 sq.km.; Population: 20,222,240; Languages: Sinhala, Tamil & English; Religions: Buddhist-69%, Hindu-15%, Christian-8%, Muslim-7%; Literacy: 92.3%; Life Expectancy: 73.41; Currency: Rupee (US\$1=103.57); p.c.i: \$ 4,300; Date of Independence: 4th February, 1948.

Government Type: Republic; President: Mahinda Rajapakse;

Sri Lanka is an island in the Indian Ocean about 80 km east of the southern tip of India.

History: Known to the ancient world as Taprobane and later as Serendip, the island was also known as Lanka, Sinhala Deepa and Seelan at different times. Until 1972, it was Ceylon. The country became independent on 4 February 1948 and on 22 May the Republic of Sri Lanka was created.

Before the new republican constitution was promulgated, a youth insurrection in April 1971 rocked prime minister Sirimavo Bandaranaike's (world's first woman PM) United Front government, leading to her imposing several harsh socialist measures. By the 1977 general election, a country tired of endemic scarcities and rising prices swept her out of office.

The United National Party (UNP) administration of Prime Minister Junius Jayewardene which took over,replaced the 1972 constitution and Jayewardene assumed unprecedented power as executive president, becoming both head of state and head of government. He was elected to a second six-year term in October 1982, and in a referendum won a mandate to extend parliament to 1989. In late 1988, former prime minister Ranasinghe Premadasa was elected executive president for a 6-year term.

The Tamils in Sri Lanka have been fighting for more power for over a decade. In 1978, some concessions such as the recognition of the Tamil language were made. TULF -Tamil United Liberation Front-spearheaded the agitation. Later more militant organisations like the LTTE-Liberation Tigers of Tamil Eelamand EPRLF-Eelam People's Revolutionary Liberation Front joined the struggle. More than 54,000 have died in the civil war.

On 29 July 1987, however, an important breakthrough was made when President Jayawardene and the Indian PM, Rajiv Gandhi signed an accord regarding a settlement of the country's ethnic crisis. Accordingly an IPKF-Indian Peacekeeping Force-was sent to the island to end the hostilities and supervise surrender of arms. After a long period of bloody military operation, the IPKF started

In November, Parliament adopted the legislation establishing provincial councils. In the election held in the North Eastern Province under the Peace Plan, Varadaraja Perumal of EPRLF became Chief Minister.

pulling out its forces on Sept. 20, 1989.

President Ranasinghe Premadasa lifted the

emergency after more than 51/2 years on January 11, 1989 and general elections were held in February. United National Party won and the former Finance Minister D.B.

Wijetunge was appointed Prime Minister.
President R. Premadasa, 69, was assassinat-ed by a suicide bomber on May 1, 1993 and the Prime Minister D.B. Wijetunge, 71, was elected President. Ranil Wickre-

Parliamentary elections were held on 19 August 1994, and Chandrika Kumaratunga formed the government

masinghe was appointed Prime Minister.

formed the government.

After the Presidential elections of 9 Nov.,
Chandrika Kumaratunga became President.
Under the new government, her mother

Sirimayo Bandaranaike was made Prime Min-

ister, Mrs. Bandaranaike died on Oct. 10, 2000.

War between northern Tamil separatists and govt. forces continued, in spite of a ceasefire of Jan. 3, 1995. In Jan. '98, the govt. outlawed LTTE. Jaffna Mayor Ms. Sarojini Yogeswaran was assassinated by LTTE in May. In Aug., the public emergency was extended to all over Sri Lanka.

Economy: Sri Lanka's predominantly rural population is concentrated in the west, south and south-west regions, where rubber, tea and coconuts are grown. About one-half of the working population are engaged in agriculture, forestry and fishing, and only agriculture provides 21% of the gross domestic product (GDP). Of the total area of 6,561,000 hectares, about 2m. hectares are under cultivation. Agriculture engages about 45% of the labour force. The main crops are paddy, rubber, tea and coconuts

In 1978, Sri Lanka was the world's largest exporter of tea, when tea, rubber, and coconut together contributed about 70% of total export earnings. This position gradually declined. However, early 1990s showed specified free trival. The 1993-97 plan aimed at a minual growth rate. The main industrial food, beverages, tobacco, text

and leather goods, chemicals, petroleum, rubber and plastics. Principal exports are tea, rubber, copra, coconut oil and desiccated coconut, textiles and garments, precious and semi-precious stones. Gems are among the chief minerals mined and exported. Principal imports are petroleum, machinery and equipment, vehicles transport equipment and food and beverages.

Experimental television broadcasting began in April 1979. Roopavahini, a national television network was established, with stations at Mount Pidurutalagala, Kokavil and Kandy, from which telecasting began in December 1982.

Recent Events: In Februay 2006, government and Tamil Tiger rebels declared their respect for the 2002 ceasefire at talks in Geneva. In April, explosions and rioting in Trincomalee, in the north-east, left 16 people dead. Police blamed Tamil Tiger rebels for the blasts, which came amid a marked escalation in deadly violence. In June, 64 people were killed in a mine attack on a bus in Anuradhapura district. Days later, more than 30 people were killed in a land and sea battle between government forces and Tamil Tiger rebels.

Mission in India: High Commission for the Democratic Socialist Republic of Sri Lanka, 27-Kautilya Marg, Chanakyapuri, New Delhi 110021. Tel. 23010201-03; Fax:23793604.

E-mail:lankacom@del2.vsnl.net.in

Deputy High Commission of the Democratic Socialist Republic of Sri Lanka, 196, T.T.K. Road, Alwarpet, Chennai-600 018. Tel. 4987896, 4987612; Fax: 4987894.

India: Mumbai

E-mail:sldehico@md3.vsnl.net.in

Consulate: Consulate General of the Democratic Socialist Republic of Sri Lanka

"Sri Lanka House", 34 Homi Mody Street Mumbai - 400 023, India. Tel : 2045861, 204803: Fax: 2876132

E-mail: slcon@bom5.vsnl.net.in

Indian Mission in Sri Lanka: High Commission of India, 36-38, Galle Road, P.O.Box No. 882, Colombo 3, Sri Lanka. Tel: 00-94-1-421605, 422788, 422789; Fax: 00-94-1-446403, 448166.

E-mail:hcicmbpl@sri.lanka.net

164. St. Kitts-Nevis

(Federation of St. Kitts and Nevis)`



Capital: Basseterre; Area: 269 sq km; Population: 39,129; Languages: English and Patois; Religions: Anglican, Other Protestant, Roman Catholic; Literacy: 97.8%; Life Expectancy: 72.4; Currency: East Caribbean Dollar (\$1 = 2.66); p.c.i.: \$8,800; Date of Independence: 19th September, 1983.

Government Type: Constitutional Monarchy; Gov. Gen.: Cuthbert M. Sebastian. PM: Dr. Denzil Douglas.

History: St. Christopher (Kitts)-Nevis is two islands in East Caribbean separated by a narrow channel 3.2 km wide. The islands were given the status of an Associate State of the U.K. in 1967 and became independent on Sept. 19, 1983. At that time Anguilla was part of St. Kitts-Nevis. The Anguillans revolted against this arrangement and Anguilla was separated. Nevis has the right of secession.

In August, '98, the 62% of people of Nevis (population: 9000) voted in favour of leaving the federation, but failed to reach the twothirds majority needed for secession.

The population is mostly black.

Economy: The economy is agricultural, cotton and sugar being the principal crops. Industries: Sugar, construction, clothing, tourism.

165. St. Lucia

Capital: Castries; Area: 616 sq km; Population: 168,458; Languages: English and French patois; Literacy: 80%; Religions: Roman Catholic-67.5%, Seventh Day Adventist-8.5%, Pentecostal-5.7%, Anglican-2%, Evangelical-2%, other Christian-5.1%, Rastafarian-2.1%, other-1.1%, unspecified-1.5%, none-4.5%; Literacy: 90.1%; Life Expectancy: 73.84; Currency: East Caribbean Dollar (\$1=2.70); p.c.i.: \$ 5,400; Date of Independence: 22rd February, 1979.

Government Type: Parliamentary Democracy; Gov. Gen.: Calliopa P. Louisy; PM: Kenny Anthony.

History: St. Lucia, in Eastern Caribbean, is the second largest island in the Windward group. Volcanic in origin. St. Lucia was ceded to Britain by France in 1814. Self-government was granted in 1967. It became independent on Feb. 22, 1979. There is a 17-seat House of Assembly.

Economy: The economy is agricultural, coconut, bananas and cocoa being the main crops: Manufactures include soap, plastics, garments and beer.

166. St. Vincent & The Grenadines

Capital: Kingstown; Area: 388 sq km; Population: 117,848; Languages: English and French Patois: Religions: Anglican-47%, Methodist-28%, Roman Catholic-13%, Hindu, Seventh-Day Adventist, Other Protestant; Literacy: 96%; Life Expectancy: 73.85; Currency: East Caribbean Dollar (\$1=2.70); p.c.i.: \$ 2,900; Date of Independence: 27th October, 1979.

Government Type: Parliamentary Democracy; Gov. Gen: Sir Fredrick Nathaniel Ballantyne; PM: Ralph E Gonsalves.

History: One of the Windward islands, west

of Barbados, St. Vincent became a British A sociated State in 1969 and achieved incependence on Oct. 27, 1979.

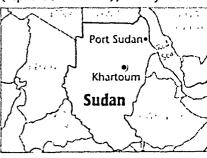
St. Vincent (345 sq.km.), chief island of the chain, is dominated by the volcano Soufriere. (It erupted in 1979). The Great dines is a chain of islets with a total area 43 sq.km.

The population is of mixed origin: Eur pean-Negro and Carib-Indian.

Economy: Bananas, arrowroot, copra, s island cotton and spices are the main pro ucts. Industry: Food-processing, electror equipment assembly, garments, tourism.

167. Sudan

(Republic of the Sudan) Jumhuriyat as-Suda



Capital: Khartoum; Other Large Citie Omdurman, Port Sudan; Area: 2,505,813 skm; Population: 41,236,378; Languages: Arbic, English, Dinka, Nubian etc.; Religion Sunni Muslim-70% (in the north), indigenous beliefs-25%, Christian-5% (mostly in the south and in Khartoum); Literacy: 61.1 suffe Expectancy: 58.92; Currency: Dink (\$1=219.145); p.c.l.: 2,100; Date of Independent

Government Type: Republic with stron military influence; Head of State and Gov (President): Lt. Gen. Omar Hassan al-Bashi

dence: 1st January, 1956.

History: The Sudan, the largest Africa country, is a republic in north east Africa. The White Nile flows through the middle of the country and joins the Blue Nile at Kharto.

Sudan became a sovereign independent republic in Jan., 1956.

The 12 northern provinces are predominatly Arab-Muslim, and the 3 southern provinces are populated largely by Christians and animists.

The Sudanese People's Liberation Army (SPLA) (the mainstream rebel group which has been fighting for 16 years to free mainly Christian and animist south Sudan from domination by Islamic, Arabised north) maintains guerilla activities in the south. 1.5m. people have been dead from violence and famine.

In Apr. '97, Sudan's Islamic government and four southern rebel groups signed a peace treaty to end the civil war, by which a referendum is to be held after four years for Southerners to decide whether to secede or remain in Sudan. Famine and starvation were reported to be the worst in 1998. UN World Food Programme were flying in food as SPLA called a unilateral ceasefire in their fight with the north. Peace talks in Addis Ababa failed in August.

Economy: The main agricultural crop sorghum is the country's staple food and cotton is the most important cash crop and main export. Other products include gum arabic (world's principal producer), sugarcane, sesame, peanuts, dates, hides and skins, chillies, beans and com. Forests cover about one-fifth of the land area, and most productive woodland is state-owned. Sudan's mineral wealth includes copper, gold, iron and oil. Industry: Textiles, food processing.

Recent Events: In May, Khartoum government and the main rebel faction in Darfur signed a peace accord. Two smaller rebel groups rejected the deal. In July, US President George Bush renewed calls for UN peacekeepers to be allowed into Darfur, saying the existing African Union troops needed to be complemented.

Mission in India: Embassy of the Republic of Sudan, Plot No.3, Shantipath,

Chanakyapuri, New Delhi-110021. Tel: 26873785, 26873746; Fax: 26883758.

E-mail:sudandel@del3.vsnl.net.in

Indian Mission in Sudan: Embassy of India, P.O. Box 707, 61-Africa Road, Khartoum-II, Sudan. Tel:00-249-11-451202, 451031; Fax: 00-249-11-472266.

E-mail:indembsdn@yahoo.com/india2 sudan@yahoo.com

168. Suriname

(Republic of Suriname)



Capital: Paramaribo; Area: 163,820 sq km; Population: 439,177; Languages: Dutch, English, Hindi, Sranantongo (Suri-namese) and Javanese; Religions: Hindu-27.4%, Muslim-19.6%, Roman Catholic-22.8%, Protestant-25.2% (predominantly Moravian), indigenous beliefs-5%; Literacy: 88%; Life Expectancy: 69.01; Currency: Gulden/Suriname Guilder (\$1= 2.74); p.c.i.: \$ 4,100; Date of Independence: 25th November, 1975.

Government Type: Republic; President: Ronald Venetiaan; Vice President & PM: Ram Sardjoe

History: Suriname, formerly Dutch Guyana, lies on the north east coast of South America. It became independent in 1975.

A Military Council came to power in 1982. In 1987 civilian rule was restored. Political turmoil continued, with its adverse effects on the economy.

A boundary dispute between Suriname

nd Guyana flared in June, 2000.

Ethnic groups: Creole 35%; Indian 33%; vanese 16% Bushnegroes (Blacks) 10%; merindian 3%.

Economy: The economy is very dependent n exports and imports. Much of the land is iven to rice cultivation, managed by industanis. The country is rich in bauxite. auxite, alumina and aluminium constitute early 80% of the exports. Industry: Aluninium, processed foods, lumber.

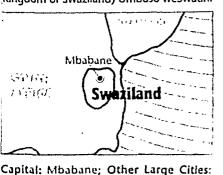
Mission in India: Embassy of the Republic f Suriname, C-15, Malcha Marg, Chanakyauri, New Delhi-110 021; Tel: 26888435, 6888454; Fax: 26888450.

E-mail:emsurnd@mantraonline.com Indian Mission in Suriname: Embassy of Inlia, 10, Rode Kruislaan, Post Box No. 1329, 'aramaribo, Suriname. Tel: 00-597-498344, 198018: Fax: 00-597-491106.

E-mail:ambindia@sr.net /india@sr.net.

169. Swaziland

Kingdom of Swaziland) Umbuso weSwatini



Lobamba, Manzini; Area: 17,363 sq km, Population:1,136,334; Languages: English and Swazi; Religions: Zionist (a combination of Christianity and indigenous ancestral worship) -40%, Roman Catholic-20%, Muslim-10%; Literacy: 81.6%; Life Expectancy 32.62; Currency: Lilangeni (pl.-emalangeni) (\$1=6.84); p.c.f.: \$ 5,000; Date of Independence: 6th September, 1968.

Government Type: Constitutional Monarchy; Head of State: King Mswati III. PM: Absdom Themba Dlamini.

Swaziland is surrounded almost entirely by South Africa. Mozambique to the east is its only other neighbour.

History: Swaziland, formerly a British protectorate, attained independence on Sept. 6, 1968. In 1973, the king assumed full powers. Political parties were banned in 1978. The 1990s saw moves towards a multiparty system.

The royal house of Swaziland is one of Africa's last ruling dynasties. The population is homogenous, of Nguni descent.

Economy: Sugar is the principal item in the economy, with citrus fruits, cotton, rice and maize, coming next. But the main wealth of the Swazis is cattle. There are considerable mineral reserves, especially, asbestos, iron and coal Industry. Wood pulp, cotton ginning and meat processing.

Recent Events: In March 2006, 16 opposition activists from the banned Pudeno party were freed on bail after being charged in December and January over series of petrol bomb attacks. The European Union banned more than 90 airlines, including six registered in Swaziland, in a move to boost air safety. In April, South African police fired at protesters trying to blockade a border crossing with Swaziland to demand political reform these

Mission in India: Embassy of Swaziland Stationed at Kuala Lumpur.

170. Sweden



\$29,800; Date of Independence: v^{th} pure, 1523.

Government Type: Constitutional Monarchy; Head of State: King Carl XVI Gustaf. PM: Goran Persson.

History: Sweden which occupies the eastern part of the Scandinavian peninsula, is the largest of the Nordic countries and in terms of area, the fourth largest country in Europe. Mountains cover 25% of the country. A constitutional monarchy since 1434, Sweden is the world's first widely comprehensive welfare state. Stockholm is known as "Beauty on the Sea".

Economy: Sweden has rich natural supplies of coniferous forest, water power, iron ore and uranium.

Highly industrialised, Sweden today exports 40% of its industrial production. Major industries: Steel, machinery, instruments, autos, ship building and paper. Main crops: Grains, potatoes, sugar beets and dairy products. Forests (half the country) yield 16% of exports.

Sweden entered the EU on Jan. 1, 1995 but decided against joining NATO.

In 2000, Sweden voted in favour of adopting euro as its currency.

Recent Events: Foreign Minister Laila Freivalds resigned amid row over her ministry's involvement in closure of website which had been due to publish controversial cartoons depicting prophet Mohammad.

Mission in India: Embassy of Sweden, Nyaya Marg, Chanakyapuri, New Delhi-110 021. Tel: 24197100; Fax: 26885401, 26885540.

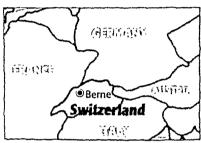
E-mail: ambassaden.new-delhi@foreign. ministry.se Web: www.swedenembindia.com

Indian Mission in Sweden: Embassy of India, Adolf Fredriks Kyrkogata 12, Box 1340, 111 83 Stockholm, Sweden. Tel: 00-468-107008; Fax: 00-468-248505.

E-mail:information@indianembassy.se

171. Switzerland

(Swiss Confederation)



Capital: Berne; Other Large Cities: Zurich, Basel, Geneva, Lausanne; Area: 41,293 sq.km.; Population: 7,523,934; Languages: German, French, Italian and Romansch; Religions: Roman Catholic-41.8%, Protestant-35.3%,orthodox-1.8%, other Christian-0.4%, Muslim-4.3%, other-1%,unspecified-4.3%, none-11.1%; Literacy: 99%; Life Expectancy: 80.51; Currency: Franc (\$1 = 1.23); p.c.i.: \$32,300; Date of Independence: 1st August, 1291.

Government Type: Federal Republic; President: Moritz Leuenberger

Switzerland, a Confederation in Central Europe is a mountainous country, with the Alps covering 60% of the land area. The country is famous for its lakes. About one-fourth of the area is covered by mountains and glaciers.

History: Since 1291, Switzerland (called Helvetia in ancient times) has remained a completely independent country, and has not

been involved in a foreign war since 1515. The president is elected to a nonrenewable one-year term. It is a multi-lingual state with most people speaking more than one language. It has 1.24 million foreign residents. In a referendum in 1986, the electorate voted against joining the UN. In 1971, women were given the vote in federal elections and

tion pact called the Patnership for Peace.

Economy: The Swiss terrain offers little scope for farming. Nearly half the nation's food has to be imported. Mountain slopes provide pasture for beef and dairy cattle. Crops include grains, potatoes, sugar beets, vegetables, fruits and wine. Forests help by providing plenty of wood. From the earliest times, Switzerland has been famous for its cottage industries-high quality products but no large-scale production. Agricultural sector forms only 3.2% of GNP.

Swiss-made watches and clocks are famous

the right to hold federal office. Switzerland

joined (June '97) NATO's security coopera-

the world over. Precision tools and machines form another specialised industry. Fabrics and lace are part of Switzerland's image. Other industries: Steel, textiles, food-stuffs (cheese, chocolate), chemicals, drugs, banking. The engineering, electrical and metal industry accounts for 45% of total exports. Minerals: Salt. The availability of electric power in every cottage has fostered growth of all kinds of small industries throughout Switzerland. Domestic and international tourism are important factors in the Swiss economy. Of a total revenue of 22.4 billion Swiss Francs in 2001, 9.7 billion (or 43%) came from domestic tourism. Expenditure by foreign visitors in Switzerland added some 12.7 billion Swiss Francs (3% of GDP). Switzerland is a leading world banking centre and the seat of many UN and other international agencies. The nation's strict bank-secrecy rules have been eased since 1990. Geneva was the headquarters of the League of Nations,

Swiss voters approved the modernisation of the country's 125-year old constitution in April, 99. The new document enshrined new rights, including the right to strike.

Mission in India: Nyaya Marg, Chanakyapuri, New Delhi-110 021. Tel: 26878372-74, 26878534; Fax: 26873093.

E-mail: Vertretung@ndh.rep.admin.ch

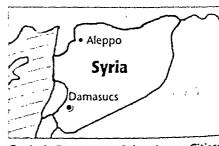
Consulate: Mumbai: 102, Maker Chambers's IV, 10th Floor, 222, Jamna Lal Bajaj Marg, Nariman Point, Mumbai-400 021,

Tel: +91 22-22884563-5/22831738, E-mail: vertretung@mum.rep.admin.ch Indian Mission in Switzerland: Embassy of

India, Kirchenfeldtrasse 28, Postfach 406, CH-3000, Berne-6, Switzerland. Tel: 00-41-31-3511110; Fax: 00-41-31-3511557.
E-mail:india@spectraweb.ch

172. Syria

(Syrian Arab Republic)



Capital: Damasucs; Other Large Cities: Aleppo, Homs, Hama; Area: 185,180 sq.km.; Population: 18,881,361; Languages: Arab.c, Kurdish, Armenian; Religions: Sunni Musim

74%. Alawite, Druze, and other Muslim sects-16%, Christian (various sects)-10%, jerustry Literacy: 76.9%; Life Expectancy: 70.32;

Currency: Syrian Pound (\$1=52.21); p.c.; \$ 3,900; Date of Independence: 17" April, 1946.

Government Type: Republic Jacob Mittary regime); Presidentification of Australia Muhammad Naji al-Com

The Syrian Arab ?

at the eastern end of the Mediterranean Sea. The Orontes and Euphrates rivers pass through Syria. The chief seaport is Latakia.

History: Syria, the seat of an ancient civilization, became a fully independent sovereign republic in 1946.

Syria joined with Egypt in 1958 in the United Arab Republic but seceded in 1961. Principal towns are Damascus, Aleppo and Homs.

Syria has been involved in the Arab-Israeli conflict since 1948. Syria's negotiations with Israel haven't made much headway.

Economy: Agriculture and cattle-breeding comprise the major occupations of the people. The chief crops are cotton, wheat, tobacco and olives. Minerals: Oil, phosphate, gypsum. Industries include oils, soap, textiles, leather, tobacco, sugar and glassware.

Recent Events: In February 2006, Danish and Norwegian embassies in Damascus were set on fire during a demonstration against cartoons in a Danish newspaper satirising the prophet Muhammad. In July, thousands of people fled into Syria to escape Israel's bombardment of Lebanon.

Mission in India: Embassy of Syrian Arab Republic, D-5/8, Vasant Marg, Vasant Vihar, New Delhi - 110057. Tel: 26140233; Telefax: 26143107.

Indian Mission in Syria: Embassy of India, 4046, Adnan Malki Street, Yassin Nouwelati Building, P.O. Box 685, Damascus, Syria. Tel: 00-963-11-3739081/83; Fax: 00-963-11-3316703.

E-mail: indembasy@cyberia.net.lb

173. Taiwan

(Republic of China) Chung-hua Min-kuo Capital: Taipei; Other Large Cities: Kaohsiung, Taichung; Area: 35,981 sq.km.; Population: 23,036,087; Languages: Mandarin Chinese, Taiwan, Hakka dialects; Religions: Buddhist, Confucian and Taoist-93%, Chris-

tian-5%; Literacy: 96.1%; Life Expectancy: 77.43; Currency: New Taiwan Dollar (\$1=32.467); p.c.i: \$ 27,600.

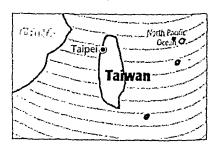
Government Type: Democracy; President: Chen Shui-bian. PM: Su Tseng-chang

Taiwan, off southeast coast of China and formerly known as Formosa, includes the island of Taiwan, two off-shore islands Quemoy and Matsu, and the nearby islets of the Pescadores chain.

History: Originally Taiwan and adjoining areas were Chinese territory. In 1950, Chiang Kai Shek made Taiwan the headquarters of the Nationalist Republic of China. Although Taiwan still claims to be the legal government of China it lost its membership in the UN and its permanent seat in the Security Council to Communist China in 1971. In 1987, martial law was lifted after 38 years and in 1991, the 43-year period of emergency rule ended. In May, '96 Lee Teng-Hui stormed to a resounding victory in the island's first direct presidential election.

Taiwan has one of the world's strongest economies and is among the 10 leading capital exporters. Taiwan has foreign exchange reserves worth over \$175 b.

According to an official source, Taipei wants to be reunited with China, but not at present. Taiwan is interested in joining international organisations. In Aug. '99, China accused Taiwanese President Lee Teng-Hui of taking a 'dangerous' step towards splitting the country. Teng-Hui said 'One China' was possible but only under a democratic



union with China's mainland. China threatened to invade Taiwan if the President's statehood call was made the official stand.

Economy: The main agricultural products are rice, tea, sugar, sweet potatoes, bananas, jute and turmeric. Camphor secured from forests is a government monopoly. Industries comprise iron works, glass, soap, textiles, clothing, electronics, chemicals, plastics and processed foods. Coal, marble, petroleum and natural gas are the principal minerals. Taiwan has made big progress in agriculture and industry and the living standards have gone high, as a result of land reform, government planning, free universal education

More than half a century of Nationalist Party rule ended when Opposition leader Chen Shui-Bian (Democratic Progressive Party) was elected in March, 2000).

and U.S. aid and investment.

Recent Events: In February 2006, Taiwan scrapped the National Unification Council, a body set up to deal with reunification with the mainland. China said the decision could bring "disaster". Under pressure over corruption allegations against a family member, President Chen ceded some of his powers to the Prime Minister.

174. Tajikistan

(Republic of Tajikistan)

Capital: Dushanbe; Other Large Cities: Khudzand, Kulyab; Area: 143,100 sq.km.; Population: 7,320,815; Languages: Tadzhik,



Russian; Religions: Sunni Muslim-85%, Shi'a Muslim-5%; Literary: 99.4%; Life Expectancy: 64.94; Currency: Tajilk Ruble (\$1=3.23); p.c.i: \$1,200; Date of Independence: 9th September, 1991.

Government Type: Republic; President: Imamali Rakhmonov; PM: Akil Akilov.

History: A former Soviet republic that became independent in 1991, Tajikistan is bordered by Uzbekistan, Kirghizia, China and Afghanistan.

People who speak an Iranian dialect similar to Persian are considered to be the descendants of the original Aryan population of Turkestan.

In Nov. '92, Parliament voted to abolish presidency and instal a parliamentary republic. A pro-communist regime came in Jan. '93. In Nov. '94, a constitution establishing a presidential system was approved. Muslim rebels continued to fight the regime.

In June '97, government and opposition leaders signed a peace treaty ending five years of bloody civil war. In August, fighting was reported among pro-government warlords. Russia supported President Rakhmonov.

Economy: Farming, horticulture and cattle breeding are the main occupations. Products: Grain, potatoes, vegetable, fruit, grapes, meat, milk, eggs, wool, cotton. Natural resources: Brown coal, lead, zinc, oil, uranium, radium, arsenic.Industry: Mining, engineering, food, textile, clothing, silk, bricks, ferroconcrete, knitwear, footwear.

Recent Events: In January 2006, 20 people were kille when an avalanche engulfed an apartment block in mountainous region northeast of Dushanbe. Gaffor Mirzoyev, former top military commander, was sentenced to life imprisonment in August after being convicted on charges of terronsm and plotting to overthrow government. His spporters said the trial was politically motivated.

Mission in India: Hon. Cc

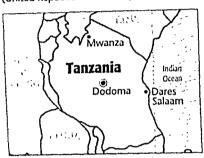
Tajikistan, Hotel Crowne Plaza Surya, New Friends Colony, New Delhi-110 065. Tel: 26835070 Extn: 1155 & 1220; Fax: 26836288.

Indian Mission in Tajikistan: Embassy of India, 45, Bukhoro Street (Formerly Sveridenko Street), Dushanbe, Tajikistan. Tel: 00-992-372-217172,211803; Fax: 00-992-372-510045, 510035.

E-mail:eoi@netrt.org

175. Tanzania

(United Republic of Tanzania)



Capital: Dodoma; Other Large Cities: Dar es Salaam, Mwanza; Area: 945,087 sq.km.; Population: 37,445,392; Languages: Kiswahili and English; Religions: Mainland–Christian-30%, Muslim-35%, indigenous beliefs-35%, Zanzibar–99% Muslim; Literacy: 78.2%; Life Expectancy: 45.64; Currency: Shilling (\$1=1,269); p.c.i: \$ 700; Date of Independence: 26th April, 1964

Government Type: Republic; President: Jakaya Kikwete.

History: The United Republic of Tanganyika and Zanzibar was constituted on April 26, 1964 (named Tanzania on Oct. 29), when the Republic of Tanganyika in East Africa and the island Republic of Zanzibar ('the Isle of Cloves'), off the coast of Tanganyika, joined into a single nation.

Three of Africa's best-known lakes-Victoria, Tanganyika and Nyasa–and Mount Kilimanjaro – the highest in Africa – are in Tanzania.

President Julius K. Nyerere dominated Tanzanian politics until he resigned in 1985. In 1967, the government set on a socialist course, and nationalised banks and many industries.

The country firmly abandoned socialist policies and switched over to a market-based system more than 14 years ago. Privatisation of the economy was undertaken in the 1990s. The process of economic recovery, however, has been painfully slow.

Economy: The economy is agricultural. The chief cash crops are sisal, sugarcane, cotton, tea, tobacco and coffee. Cloves are grown on the islands, chiefly in Pemba. Livestock is extensively raised. Diamonds are an important export. Other minerals include gold, tin and salt. Industry: Food processing and clothing.

Recent Events: In April 2006, High Court outlawed traditional practice of entertaining candidates during elections. Critics of "Takrina" - the giving of tips-said it encouraged corruption.

Mission in India: High Commission for the United Republic of Tanzania, 10/1, Sarv Priya Vihar, New Delhi-110 016; Tel: 26853046-47; Fax: 26968408.

E-mail: tanzrep@del2.vsnl.net.in

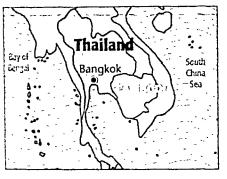
Indian Mission in Tanzania: High Commission of India, NIC Investment House, Samora Avenue, 7th & 8th Floor, Wing 'A', P.O. Box 2684, Dar-es-Salaam, Tanzania. Tel: 00-255-22-2117175; Fax: 00-255-22-2118761/2116551.

E-mail:hcitz@cats.net.com

176. Thailand

(Kingdom of Thailand) Muang Thai or Prathet Thai

Capital: Bangkok; Other Large Cities: Songkhla, Chiang Mai; Area: 513,115 sq.km.; Population: 64,631,595; Languages: Thai, Lao, Chinese, English and Malay; Religions:



Buddhist-94.6%, Muslim-4.6%, Christian-0.7%, others-0.1%; Literacy: 92.6%; Life Expectancy: 72.25; Currency: Baht (\$1=38.46); p.c.l: \$8,300; Date of Independence: 1238.

Government Type: Constitutional Monarchy; Head of State: King Bhumibol Adulyadej Abldet; PM: Thaksin Shinawatra.

Thailand, formerly known as Siam, is a southeast Asian country.

History: An ancient autocracy, it became a constitutional monarchy in 1932. In 1948, the country assumed its present name Thailand. It is the only southeast Asian country never taken over by a European power. The military took over the govenment in a bloody 1974 coup. In 1988, there was a democratic election but again military came to power in 1991. General elections were held in July, '95.

Thailand was well on its way to joining the club of Asia's 'economic tigers', when crisis deepened early '98 and the country appealed for help from G-7, and began implementing linancial reforms.

On June 9, 1996 King Bhumibol, currently world's longest reigning monarch, completed 50 years on the throne.

In 2000, the Chakri dynasy marked the 200th anniversary.

Economy: Agriculture is the mainstay of the country and engages 60 per cent of the population. The chief crop is rice and Thailand is world's biggest rice exporter - target for 1996 was 5m. tons. Coconuts, tobacco, cotton and teak are the other items of agricultural exports. During the last decade Thailand increased her export of manufactured and processed items. Industry: Cement, processed food, textiles, wood, tin, jewelry. Minerals include tin (one of the largest producers), manganese, tungsten, antimony, lignite and lead. Since 1982 tourism has been Thailand's largest revenue earner.

Recent Events: In April-May 2006, snap election called by the Prime Minister amid mass rallies against him, was boycotted by the opposition and was subsequently annulled, leaving a political vacuum. The Prime Minister took a seven-week break from politics.

Mission in India: Royal Thai Embassy, 56-N, Nyaya Marg, Chanakyapuri, New Delhi - 110 021. Tel: 26118103; Fax: 26872029.

E-mail:thaidel@mfa.go.th

Indian Mission in Thailand: Embassy of India, 46, Soi 23 (Prasanmitr) Sukhumvit Road, Bangkok-10110, Thailand. Tel: 00-66-2-258-0300 to 6; Fax: 00-62-2-2584627, 2621740.

E-mail:indiaemb@mozart.inet.co.th

177. Togo

(Republic of Togo) Republique Togolaise



Capital: Lome, Area: 56,785 sq.km.; Population: 5,548,702, Languages; French (official) and tribal languages; Religions: Indigential beliefs-51%, Christian-29%, Musical Literacy: 60 9%, Life Expectancy

rency: CFA Franc (\$1=518.98); p.c.i: \$ 1,700; Date of Independence: 27th April, 1960.

Government Type: Republic; President: Faure Gnassingbe; PM: Edem Kodjo.

History: The Republic of Togo, formerly Togoland, lies on the west coast of Africa forming a narrow strip stretching from the Gulf of Guinea north to Burkina Faso. Gained independence on Apr. 27, 1960. The first multi-party elections were held in 1994. In '98, President Eyadema was re-elected.

Economy: The principal products are coffee, cocoa, cotton, palm kernels, kapok and groundnuts. Togo's considerable natural resources are still largely undeveloped. Phosphates, now being mined in increasing quantities, form the country's principal export. Industry: Textiles, shoes, handicrafts, agricultural processing.

The 36th summit of Organisation of African Unity was held in Lome in July, 2000.

Recent Events: In April 2006, reconciliation talks between government and opposition resumed. In August, government and opposition signed an accord providing for the participation of opposition parties in a transitional government.

Mission in India: Honorary Consulate of the Republic of Togo, T & T Motors Ltd., 212, Okhla Industrial Estate, Phase III, New Delhi-110 020; Tel: 26821005-06; Fax: 6821013.

E-mail: tnttalwar@vsnl.net and tandt@ndf. vsnl.net.in

178. Tonga

(Kingdom of Tonga) Puleanga Fakaktui O Tonga

Capital: Nuku'alofa; Area: 748 sq.km.; Population: 114,689; Languages: English and Tongan; Religions: Christian; Literacy: 98.9%; Life Expectancy: 69.82; Currency: Pa'anga (\$1=2.0345); p.c.i: \$ 2,300; Date of Independence: 4th June, 1970.

Government Type: Constitutional Monar-



chy; Head of State: King Tau-fa'ahau Topou IV. PM: Feleti Sevele.

History: Tonga (also called Friendly Islands) consists of 169 islands and islets in the south western Pacific Ocean. The Tropic of Capricorn and the International Dateline cross each other very near Tonga.

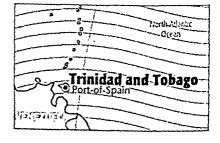
First visited by the Dutch in early 17th century, Tonga became a British protectorate in 1900 and independent on June 4, 1970. The island country was admitted to the United Nations in Sept. 1999.

Economy: Tonga is an agricultural country. Crops: coconuts, bananas, vanilla, coffee, ginger. Copra and bananas exported. Industry: Tourism, coconut products, fishing.

179. Trinidad and Tobago

(Republic of Trinidad and Tobago)

Capital: Port-of-Spain; Other Large Cities: San Fernando, Arima; Area: 5128 sq.km.; Population: 1,065,842; Languages: English; Religions: Roman Catholic-26%, Hindu-22.5%, Anglican-7.8%, Baptist-7.8%, Pentecostal-6.8%, other Christian-5.8%, Muslim-5.8%,



Seventh Day Adventist-4%, others-26.7%; Literacy: 98.6%; Life Expectancy: 66.76; Currency: Tri & Tob Dollar (\$1=6.29); p.c.i: \$ 16,700; Date of Independence: 31st August,

Government Type: Parliamentary Democracy; President: George Maxwell Richards; PM: Patrick Manning.

Trinidad and Tobago are the southernmost islands of the Caribbean archipelago.

1962.

History: Formerly a British Colony, it achieved independence in 1962 and became a republic in 1976.

Ethnic profile: African descent 40.8%, Indians 40.7%, mixed races 16.3%, European, Chinese and others 2.2%.

Economy: There are large reserves of petroleum and natural gas. Trinidad and Tobago has the most diversified and industrialised

economy in the English-speaking Caribbean. Industries include oil processing, manufactured goods, fertilisers, rum, cement and tourism. Chief crops are sugarcane, citrus fruit,

cocoa, coffee and bananas. Mission in India: High Commission for the Republic of Trinidad and Tobago, 6/25, shanti

Niketan, New Delhi - 1100021. Tel: 26888427; Fax: 26888463. E-mail:hcreptt@giasdl01.vsnl.net.in

Indian Mission in Trinidad and Tobago:

High Commission of India, No.6, Victoria Avenue, Post Box No. 530, Port of Spain, Trinidad and Tobago, West Indies. Tel: 00-1-868-6277480, 6277481; Fax: 00-94-1-868-

6276985. E-mail: hcipos@tstt.net.tt

180. Tunisia

(Republic of Tunisia) Al Jumhuriyah al Tunisiyah

Capital: Tunis; Other Large Citles: Sfax, Sousse; Area: 164,150 sq.km.; Population: 10,175,014; Languages: Arabic (official) and French; Religions: Muslim-98%, Christian-

विवसम्बद्धाः, 1%, Jewish and others-1%; Literacy: 74.3%; Life Expectancy: 75.12; Currency: Dinar (\$1=1.33); p.c.i: \$ 8,300; Date of Independence: 20th March, 1956. Government Type: Republic; President: Gen. Zine-al-Abidine Ben Ali, PM: Mohamed

Ghannouchi. History: A republic in North Africa, lying on the Mediterranean coast and formerly a French protectorate, Tunisia became autono-

mous in 1956 and assumed republican sta-

tus in 1957. It is the site of ancient Carthage.

Economy: Tunisia is an agricultural coun-

Tunis

Int. 5'4.

Tunisia

try, and produces wheat, barley, oats, dates, olives, citrus fruits, almonds, figs, vegetables and alfa grass. The chief minerals are phosphates, iron, lead and zinc. Industry: Oil production, textiles, leather, fertilisers, construction materials, food processing. The principal exports are olive oil, wine, phosphates and

Mission in India: Embassy of the Republic of Tunisia, A-42, Vasant Vihar, New Delhi -110 057. Tel. 2614 5346, 2614 5349; Fax: 26145301.

E-mail:embtundelhi@dishnet.dsl.net Indian Mission in Tunisla: Embassy of 🕾 dia, 4, Place Didon, Notre Dame, Tunis 100-Tel 00-216-1-787819; Fax: 00-215-1-783394 E-mail-embassy.india@ema.lam=

181. Turkey

grains.

(Republic of Turkey) Capital: Ankara; Other Large



Izmir, Adana, Bursa; Area: 779,452 sq.km.; Population: 70,413,958; Languages: Turkish, Kurdish, Arabic; Religions: Muslim-99.8% (mostly Sunni), other-0.2% (mostly Christians and Jews); Literacy: 86.5%; Life Expectancy: 72.62; Currency: Turkish Lira (\$1=1.596); p.c.i: \$ 8,200; Date of Independence: 29th October, 1923

Government Type: Republic; President: Ahmet Necdet Sezer, PM: Recep Tayyip Erdogan.

A republic in south eastern Europe and Asia Minor, Turkey occupies a strategic position, linking as it does Asia and Europe at the Straits of Bosporus, between the Mediterranean and the Black Sea.

History: Asiatic Turkey, that is, Anatolia, was the seat of one of the earliest civilizations known. Istanbul, the largest city, was first known as Byzantium and then as Constantinople. The Ottoman Turks conquered Consantinople in 1453 and founded a Turkish Empire. In 1923, Turkey became a republic.

Religious and ethnic tensions and active left and right extremists have caused endemic violence.

Some 12 m Kurds live in Turkey. Kurdish militants demand an independent state for the Kurds. Kurdish Workers' Party (PKK) leader Abdullah Ocalan was arrested in Kenya in Feb. '99 and taken to Turkey. In Sept., PKK said it would lay down arms once and for all.

In July 1996, in a break with Turkey's 73year record of zealous secularism, Turkish parliament gave approval to a coalition government led by the Islamic Party. In June '97, conservative Mesut Yilmaz took over as PM. In '98, the Islamist party was banned. Welfare party, the largest political party, was officially disbanded for being anti-secular.

A rail link completing the new "silk route" between China and Turkey through Central Asia started operation in May, '96.

In July, '97, Turkey announced plans to gradually integrate northern Cyprus into Turkey, to match any moves by the Greek-Cypriot part of the divided island to join EU. The Turkish Republic of Northern Cyprus is only recognised by Ankara. In Dec. '97, EU rejected Turkey's candidacy.

On Aug. 17, 1999 a devastating earthquake hit Turkey killing at least 12,000 people. 600,000 people were made homeless.

Economy: Agriculture maintains about 64 per cent of the population. The chief products are tobacco, wheat, cotton, olive oil and sugar. Turkey is the world's second largest producer of sultana raisins. Sheep and cattle abound in the plateau of Anatolia and provide mohair for which Turkey is famous. The main minerals are iron ore, copper, chromium, bauxite and coal. Industry: Iron, steel, machinery, petroleum, metal products, cars, processed foods.

Recent Events: In March 2006, 14 suspected Kurdish rebels were killed by Turkish security forces. In April, clashes involving Kurdish protesters and security forces resulted in at least a dozen deaths in Southeastern areas. Baku-Tbilisi-Ceyhan pipeline was formally opened at ceremony in Turkey after Caspian oil started flowing along it.

Mission in India: Embassy of the Republic of Turkey, N-50, Nyaya Marg, Chanakyapuri, New Delhi-110021. Tel:26889053. Fax: 26881409.

E-mail:temdelhi@mantraonline.com Indian Mission in Turkey: Embassy of In-

dia, 77-A, Cinnan Caddess, Cantana, Cooste Ankara, Turkey. Tel: 00-90-312-4382195; Fax:00-90-312-4403429.

E-mail:chancery@indembassy.org.tr

182. Turkmenistan

(Republic of Turkmenistan) Turkmeno-stan Respublikasy



Capital: Ashkhabad (Poltoratsk); Other Large Cities: Chardzhou, Mary; Area: 488,100 sq.km.; Population: 5,042,920; Languages: Turkmen, Russian; Religions: Muslim-89%, Eastern Orthodox-9%, unknown-2%, Literacy: 98.8%; Life Expectancy: 61 83, Currency: Manat (\$1=6,260); p.c.i: \$8,690, Date

Government Types Republic, President & PM: Saparmurad Nayazov

of Independence: 27" October, 1991

A former Coviet republic, Turkmensitan is bounded by the Caspian sea on the west as neighbours are Uzspekistan, from and Afghanistan. The Kara Kum desert ordugies 8500 of the area.

History The region decision part of Augustin Turkestum in 1881 and a regulatin of the USSR in 1925.

In Cot. (39), "latercard scale advisored a decifacation of independence, and decial in a member of the Total Dec

Franklich der vom dem trent service it. S. m., der vom Contention in disent av leigt eine die

Economy, I seem, I seem, I will also the seem that has tradition they have by the first or you have the terral that also the tradition of the seem of a production of Exclosed adjectific algebra species are access that ment is an income state to import ment in access states. Natural resultings of previous of contribution, soft integrational extension for many over other features. Societ republic a further, a trouble textile, chemical, come at, hydrolling algorithm to tenorements, butter a kining a the country is sell culticated to the science.

Recent Events: In January 2006, the delical Niyazov ordered substantial cute to state per a sions saying his symbol to "failing ranks" to the system. In April, an agreement see edge of with Beljing on building physline to supply Turkmen gas to China.

Mission in India: Unhassy of Turbined stan, 6/16, Shantt Ulbertan, these trellat 110021; Tel. 26114102, Tax. 26114111 246/4810

I mail turkmarkégen kart

Indian Mission in Anthonoistan Anthony of India, Empery 8's Internation & Reserve Centre, I, Emile, 1, Mar 211, 8'de Rose 81 e 20 Ashgahat, Anthonoistan 181 (ble et 311 456152, 456153, Fix. 186423 417 552535 456156

Formal series with then be were

183. Tuyalu



(Tuvaluan coins also upto A\$1) (\$1=A\$ 1.36); p.c.i: \$ 1,100; Date of Independence: 1st October, 1978.

Government Type: Parliamentary Democracy; Gov. Gen.: Filoimea Telito; PM: Maatia Toafa.

History: Formerly known as the Ellice Islands, Tuvalu is a scattered group of nine small atolls in the Western Pacific Ocean and one of the world's smallest independent nations. It separated from the British Gilbert and Ellice Islands colony in 1975 under the name Tuvalu. Full independence was granted on October 1, 1978.

Economy: The poor quality of the soil permits subsistence farming of coconuts only. Most of the foreign exchange is earned through the sale of postage stamps and coins, copra and from remittances by Tuvaluans abroad.

Tuvalu was admitted to the UN as its 189th member in Sept., 2000.

184. Uganda

(Republic of Uganda)

Capital: Kampala; Other Large Cities: Jinja, Mbale, Masaka, Entebbe; Area: 241,139 sq.km.; Population: 28,195,754; Languages: English, Luganda and Swahili; Religions: Roman Catholic-33%, Protestant-33%, Muslim-16%, indigenous beliefs-18%; Literacy: 69.9%; Life Expectancy: 52.67; Currency: Uganda Shilling (\$1=1,857); p.c.i: \$ 1,800;



Date of Independence: 9th October, 1962.

Government Type: Republic; President: Yoweri Museveni. PM: Apollo Nsibambi.

History: Uganda is an equatorial state in East Africa. Formerly a British protectorate, Uganda became independent in 1962 and a republic in 1963. A military coup led by Lt. Gen. Tito Okello ousted Milton Obote's govt. in 1985. Milton Obote had himself come to power after ousting dictator Idi Amin in 1979.

In 1972, nearly all of Uganda's 45,000 Asians

were expelled.

Economy: The economy is agricultural. Main products are coffee (Africa's biggest producer) and cotton. Industry: Tea, sugar, tobacco, textiles, beer and cement. Minerals: Copper, cobalt. Uganda's economy has become the fastest growing in Africa.

Recent Events: In February 2006, President Museveni won multi-party elections, taking 59% of the vote against the 37% share of his rival, Kizza Besigye. In July, peace talks between the government and the LRA began in southern Sudan. On August 4, the LRA declared a unilateral ceasefire.

Mission in India: Uganda High Commission, B-3/26, Vasant Vihar, New Delhi-110 057; Tel: 26144413, 26145817; Fax: 26144405.

E-mail:ughcom@ndb.vsnl.net.in

Indian Mission in Uganda: High Commission of India, Plot 11, Kyandonda Road, Nakasero, P.O. Box 7040, Kampala, Uganda. Tel: 00-256-41-257368, Fax: 00-256-41-254943.

E-mail:hicomind@starcom.co.ug

185. The Ukraine

(Ukrayina)

Capital: Kiev; Other Large Cities: Kharkiv, Donetske, Odessa, Lviv; Area: 603,700 sq.km.; Population: 46,710,816; Languages: Ukrainian, Russian; Religions: Ukrainian Or-

thodox, Moscow Patriarchate, Kiev Patriarch-



ate, Autocephalous Orthodox, Ukrainian Catholic (Uniate), Protestant, Jewish; Literacy: 99.7%; Life Expectancy: 69.98; Currency: Hryvnia (\$1=6.00); p.c.i: \$7,200; Date of Independence: 24th August, 1991.

Government Type: Republic; President: Viktor A. Yushchenko; PM: Tymoshenko.

History: The Ukraine in south-west former USSR became independent in 1991. It has a Black Sea coast and western frontiers with Romania, Hungary, Poland and Czechoslovakia and is bounded north by Byelorussia and otherwise by Russia. Ukraine was one of the founder members of the CIS.

It is the most densely populated of the former Soviet republics. The second richest former Soviet republic, Ukraine contains some of the richest land in former USSR. It is considered the Soviet wheat belt.

In Apr. '86, the world's worst nuclear power plant disaster occurred in Chernobyl, Ukraine. The plant has been closed for good.

In June, '95, Russia and Ukraine reached agreement on the disputed Black Sea fleet at Sevastopol. In June, 1996, Ukraine became a nuclear weapon-free nation with the transfer of the last of its warheads to Russia. A new constitution legalising private property and establishing Ukrainian as the sole official language was approved in the same month.

Economy: Wheat, sugarbeet, sunflower, cotton, flax, tobacco, soya, fruit and vegetables, meat and milk are the main agricultural products. Natural resources: Coal, iron

ore, manganese, oil, salt and chemicals. Industry: Ferrous metallurgical, chemical, machinery, paper, television, consumer goods and food industries.

Recent Events: In January 2006, Russia briefly cut supply of gas for Ukrainian use in row over prices. In March, Viktor Yanukovych's party topped polls in parliamentary elections. Yuliya Tymostenko's took second place, leaving President Yushchenko's trailing in third. After months of bargaining, the backers of the Orange Revolution - the Yushchenko and Tymoshenko blocs and the socialists - agreed on a coalition, but the deal collapsed. The socialists agreed instead on a coalition with Viktor Yanukovych's party of Regions and the Communists. Faced with a deadline to accept Mr. Yanukovych's nomination or call new elections, president Yushchenko agreed that his rival can become prime minister.

Mission in India: Embassy of Ukraine, No.E-1/8, Vasant Vihar, New Delhi-110 057; Tel: 26146041, 26146042, Fax: 26146043

E-mail:Embassy@bol.net

Web: www. ukraineembassyindia.com Indian Mission in Ukraine: Embassy of India, 4, Terokhina Street, Padol District, Kyiv-254080, Ukraine. Tel: 00-380-44-4356661; Fax: 00-380-44-4356619.

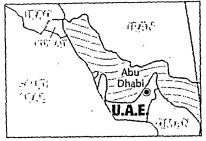
E-mail:india@public.ua.net

186. United Arab Emirates

Ittihad al-Imarat al-Arabiyah

Capital: Abu Dhabi; Other Large Cities: Dubai, Sharjah, Ras al-Khaimah; Area: 82,880 sq.km; Population: 2,602,713; Languages: Arabic; Religions: Muslim-96% (Shr'a-16%), Chustian, Hindu and others-4%; Literacy: 77.9~; Life Expectancy: 75.44; Currency: Dirham (\$1=3.673); p.c.l: \$43,400; Date of Independence: 2nd December, 1971.

Government Type: Federation of Emirates;



President: Sheikh Khalifa bin Zayid Al Nuhayyan; Vice President and PM: Maktum bin Rashid al-Maktum.

History: The United Arab Emirates consist of seven autonomous emirates in the Persian Gulf-Abu Dhabi, Dubai, Sharjah, Umm-al-Qaiwain, Ajman, Fujairah and Ras-al-Khaimah. These were formerly referred to as the 'Trucial States'. Most of the land is barren and sandy. Rainfall is limited and erratic. One-tenth of the population are nomads.

Abu Dhabi, which is the capital of the Union, is the largest of the Emirates in area. Dubai is the main port of the Union and now has the largest harbour in West Asia. Dubai, the commercial hub of the Middle East, is now transforming itself into a manufacturing location and also a cultural, sports, leisure, and shopping centre.

Economy: In the past, the people of this area made their living from subsistence agriculture and fishing, though with little good land or supplies of fresh water the agricultural prospects are limited. A combination of land reclamation and irrigation from underground acquifers allows farmers to grow dates for export and enables the UAE to be self-sufficient in fruit and vegetables. As a result of such efforts, total production increased six-fold during the 1990s.

Both Abu Dabi and Dubai have steadily been diversifying away from oil into such areas of refining and petro-chemicals. Dubai has the world's largest single-site aluminium smelter and has a major duty-free zone at Jebel. Tourism is another useful source of income. Dubai's port, airport, and glittering array of hotels, restaurants and shops draw people from all over the region.

Only a tiny proportion of the land area is suitable for agricul-ture. Crops include dates and alfalfa, along with other fruit varieties and cereals. Besides oil and gas industries, aluminium smelling, trade and financial services are also important.

Recent Events: In January 2006, Sheikh Maktoum bin Rashid al-Maktoum, UAE prime minister and vice-president and ruler of Dubai, died during a visit to Australia. He was succeeded by his brother, Sheikh Mohammed bin Rashid al-Maktoum. In March, a political storm in the United states forced state-owned Dubai Ports World to relinquish control of terminals at six major US ports. Critics of the ports deal feared an increased risk of terrorist attack, saying the United Arab Emirates was the home of two of the 9/11 hijackers. The UAE announced several economic changes, including to the days of the official weekend to improve Western business contacts, and to labour laws to reduce dependence on foreign workers and to allow labourers to form trade unions.

Mission in India: Embassy of the UAE, EP-12, Chandergupta Marg, Chanakyapuri, New Delhi-110 021. Tel: 24670830,24670945; Telefax: 26873272.

E-mail: embassyemirates@bol.net.in/embassyabudhabi@bol.net.in

Indian Mission in UAE: Embassy of India, Villa No. 9, Street No. 5, Sector-2/33, Khalidiya, P.O.Box No.4090, Abu Dhabi (UAE). Tel: 00-971-2-6664800; Fax: 00-971-2-6661518.

E-mail:indiauae@emirates.net.ae

187. United Kingdom

United Kingdom of Great Britain and Northern Ireland



Capital: London; Other Large Cities: Manchester, Birmingham, Glasgow, Leeds, Liverpool; Area: 244,108 sq km; Population: 60,609,153; Languages: English, Welsh, Scottish and Gaelic; Religions: Christian (Anglican,Roman Catholic,Presbyterian, Methodist)-71.6%, Muslim -2.7%, Hindu-1%, unspecified or none-23.1%, Literacy: 99%; Life Expectancy: 78.54; Currency: Pound Sterling (\$1=0.540); p.c.i: \$ 31,460; Date of Independence: 1284.

Government Type: Constitutional Monarchy; Head of State: Queen Elizabeth II, PM: Tony Blair.

History: The United Kingdom(UK) constitutes the greater part of the British Isles. Great Britain is the largest of the islands forming the United Kingdom. It comprises England, Scotland, and Wales. The next largest is Ireland, comprising Northern Ireland, which is part of the UK, and the Irish Republic. Western Scotland is fringed by the large island chains known the inner and Outer Hebrides, and to the north of the Scottish mainland are the Orkney and Shetland islands. All these, along with the Isle of Wight, Anglesey and the Isles of Scilly, have administrative ties with the Mainland, but the Isle of Man in the Irish Sea and the Channel Islands between Great Britain and France are largely self-governing, and are not part of the UK. The UK is one of the 25 member states of the European Union (UN).

The United Kingdom's system of govern-

ment is known as constitutional monarchy, though its constitution is not contained in any one document; instead it has evolved over many years. Ministers of the Crown govern in the name of the Sovereign, who is both head of state and head of the government. Actual power is vested in parliament which is the supreme legislative body in Great Britain. The parliament consits of two houses the House of Lords and the House of Com-

Economy: Britain is one of the world's leading industrial and exporting countries. Chief industries are iron and steel, engineering, chemicals, electronics, motor vehicles, metals, machinery, ship building, aircraft, textiles, cloth, other consumer goods and banking. Metals and metal using industries contribute more than 50% of the exports. Britain's coal mines yield about 128 million tons annually. Although Britain's agriculture and trawler-fishing are highly mechanised, half of the country's food supplies and most of its raw materials are imported. Chief crops: Grains, sugar, fruits, vegetables.

mons.

Severn and Thames are the largest rivers. The most famous chruch is Westminster Abbey. The most celebrated universities are Oxford and Cambridge. There are about 40 other universities.

England: Population: 49m. A large overseas empire was established. United with Wales (1536), with Scotland (1707) and with Ireland (1801; partition in 1921) to form United Kingdom.

Wales: The principality of Wales in Western Britain has a population of 2,899,000. Cardiff is the capital. English and Welsh are spoken.

Scotland: Scotland occupies the northern 37% of the main British Island, and the Herbrides, Orkney, Shetland, and smaller islands. Population: 5,111,000. Edinburgh is the capital.

Northern Ireland is situated in the no

442 YOKED PANOKAMA

east of Ireland and forms part of the United Kingdom. It comprises six Ulster counties of Antrim, Down, Armagh, Fermanagh, Londonderry and Tyrone. The rest of the island forms the Republic of Ireland. Northern Ireland has been rocked by bloody agitation for union with Catholic Irish Republic. 1985 saw an Anglo-Irish agreement which for the first time gave Dublin a say in the running of the province. Population: 1,610,000 and Capital: Belfast.

Agriculture is the main occupation in Northern Ireland. Cattle, sheep, hogs, eggs, poultry, potatoes and milk are the important products. Linen, ropes, twines, rayon, clothing, tobacco, aircraft and shipping form the main branches of industry.

Recent Events: Tony Blair suffered his first House of Commons defeat as Prime Minister when MPs voted against increasing from 14 to 90 days the length of time terror suspects can be held without charge. Instead, they backed increasing it to 28 days. Police in London said they had foiled a terrorist plot on an "unimaginable scale" to blow up a number of aeroplanes flying between Britain and the United States.

Mission in India: High Commission for Britain, Shantipath, Chanakyapuri, New Delhi-110?021. Tel: 0091-11-24192100, 26872161; Fax: 0091-11-26870060 (Visa).

E-mail:postmasterNewdelhi@lco.gov.uk; Web: www.ukinindia.com

Consulate: Kolkata: British Deputy High Commission, 1A Ho. Chi Minh Sarani, Kolkata-700 071, Tel: (91-33) 22885172/22885173-76, E-mail: kolkata@fco.gov.uk

Chennai: British Deputy High Commission, 20, Anderson Road, Chennai-600 006, Tel: (91-44) 52192151

Indian Mission in United Kingdom: High Commission of India, India House, Aldwych, London WC2B 4NA, United Kingdom. Tel: 00-44-0207-8368484,3796242 (After Office); Fax:00-44-0207-8364331. E-mail:114343.3045@compuserve.com

Britain's Dependent Territories

Anguilla, Bermuda, British Antarctic Territory, British Virgin Islands, Cayman Islands, Falkland Islands, Gibraltar, Montserrat, Pitcairn, Ducie, Henderson and Oeno, St.Helena and St.Helena Dependencies (Ascension and Tristan da Cunha), South Georgia and the South Sandwich Islands and Turks and Cairos Islands.

isle of Man and the Channel Islands are direct dependencies of the Crown with their own legislative and taxation systems.

Isle of Man: It is in the Irish sea. Area:572 sq.km. Population:73,112. Capital: Douglas.

The Channel Islands: Off the North-West coast of France are Jersey, Guernsey and the dependencies of Guernsey. Area: 194 sq.km. Population: 152,241.

Anguilla: Formerly Part of St.Kitts-Nevis-Anguilla, it became de facto a separate dependency of Britain in 1969; new constitution in 1982. Area: 155 sq.km. Population: 11,797; Capital:The Valley.

Bermuda: Bermuda is a group of some 300 small coral islands in the Western North-Atlantic. In a referendum in Aug. '95, Bermudans rejected independence. Area: 53.3 sq.km; Population: 63,022; Capital: Hamilton. PM: Pamela Gordon. Population is 60% black. Persons of British or Portuguese stock form the rest.

The chief crops are vegetables, flowers, (Easter lifes specially), bananas and citrus fruits. Tourism is the main source of revenue.

Montserrat: Capital: Plymouth; Area: 102 sq.km; Population: 12,000; Languages: English and Patois; Literacy: 53%; Religions: Christianity; Currency: Eastern Caribbean Dollar; \$1=\$2.69; p.c.l: \$3127 (1985) Gov: F.J. Savage; Chief Minister: Reuben Meade-From 1871 to 1956, it formed part of the

federal colony of the Leeward Islands. The island, a British Associate State with full internal autonomy, adopted a constitution in 1960.

188. United States of America

United States of America Capital: Washington D.C.; Other Large Cit-

ies: New York, Los Angeles, Chicago, Hous-

ton, Philadelphia, San Diego, Detroit, Dallas, Boston, Miami, Atlanta, Pittsburg, San

Francisco; Area: 9,372,614 sq.km.; Popula-

tion: 298,444,215; Languages: English; Religions: Protestant-52%, Roman Catholic-24%, Mormon-2%, Jewish-1%, Muslim-1%, other-

10%, none-10%; Literacy: 97%; Life Expectancy: 77.85; Currency: Dollar (\$1-1.00); p.c.i: \$ 41,800; Date of Independence: 4th July, 1776.

Government Type: Federal Republic; Presi-

dent: George W. Bush. History: The United States of America is a federal republic composed of a federal district (Wash-ington, D.C.) and 50 states, of

which all except one - Hawaii islands - are in mainland America. The United States of America, which covers the central part of North America, grow out of the British colonies that were established in North America in the first half of the

17th century. The Declaration of Independence of the 13 states of which the American Union then consisted was adopted by Congress on July 4, 1776.

The victory of the Allies in WW-I made USA a world power. The end of the WW-II saw the emergence of USA as one of the superpowers. With the break-up of USSR in 1991, it has now become the only superpower. The Union originally comprised 13

states, to which 7 were added subsequently. Thirty other states, which were formerly territories, were also admitted into the Union as full states, thus making up 50 states in all, apart from the District of Columbia. The following table gives the existing states of the Union with their postal abbreviations, capitals, area and population.



States of the	Officia			Oregon (Ok) 33lelii 231419 3,316,134
Name	Capital	Area	Population	Pennsylvania (PA) Harrisburg 117348 11,994,010
		(sq km)	(1999)	Rhode Island (RI) Providence 3139 990,819
Alabama (AL)*	Montgomery	133916	4,369,862	South Carolina
Alaska (AK)	Juneau	1530700	619,500	(SC) Columbia 80583 3,885,736
Anzona (AZ)	Phoenix	295260	4,778,332	South Dakota
Arkansas (AR)	Little Rock	137754	2,551,373	(SD) Pierre 199730 733,133
California (CA)	Sacramento	411049	33,145,121	Tennessee (TN) Nashville 109153 5,483,533
Colorado (CO)	Denver	269596	4,056,133	Texas (TX) Austin 691030 20,044,14
Connecticut (CT)	Hartford	12997	3,282,031	Utah (UT) Salt Lake City 219888 2,129,830
Delaware (DE)	Dover	5294	753,538	Vermont (VT) Montpelier 24900 593,740
District of Col-	Washington	179	519,000	Virginia (VA) Richmond 105587 6,872,913
umbia (DC)	D.C			Washington (WA) Olympia 176480 5,756,36
Florida (FL)	Tallahassee	151940	15,111,244	West Virginia (WV) Charleston 62758 1,806,926
Georgia (GA)	Atlanta	152577	7,788,240	Wisconsin (WI) Madison 145436 5,250,446
Hawaii (HI)	Honolulu	16760	1,185,497	Wyoming (WY) Cheyenne 253325 479,602
Idaho (ID)	Boise	216431	1,251,700	*Postal two-letter (both capitals) abbreviations for
Illinois (IL)	Springfield	145934	12,128,370	U.S. states were introduced with the ZIP Code in 196
Indiana (IN)	Indianapolis	93719	5,942,901	These are fast replacing the older abbreviations.
lowa (IA)	Des-Moines	145752	2,869,413	Economy: Agriculture: Main crops ar
Kansas (KS)	Topeka	213097	2,654,052	maize, wheat, soyabeans, barley, oats, rice
Kentucky (KY)	Frankfort	104659	3,960,825	sugar, potatoes, cotton, tobacco and dair
Louisiana (LA)	Baton Rouge	123678	4,372,035	products. Industries: Iron and steel, food and
Maine (ME)	Augusta	86156	1,253,040	kindred products, chemicals, metal products
Maryland (MD)	Annapolis	27091	5,171,634	electronic equipment, machinery, transpor
Massachusetts				tation equipment, paper, petroleum prod
(MA)	Boston	21456	6,175,169	ucts, fertilisers, plastics. Minerals: Coal, cop
Michigan (MI)	ensing	151585	9,863,775	per, lead, phosphates, uranium, zinc, gold
Minnesota (MN)	St. Paul	218601	4,775,508	silver, iron, molybdenum, oil. Oil reserves in
Mususuppi (MS)	Jackson	123515	2,768,619	USA, the worlds second-biggest oil produces
Missouri (MO)	Jefferson city	180515	5,468,338	are expected to last only 10 years if output
Montana (MT)	Helena	380849	882,779	continues at the current rate. Exports: Ma
Nebraska (NE)	Lincoln	200349	1,666,028	chinery, chemicals, motor vehicles, aircraft
Nevada (NV)	Carson City	286353	1,809,253	military equipment, grains, cereals.
NewHampshire				The U.S. is the only industrial country
(NH)	Concord	24033	1,201,134	where large population increases are still pro
New Jersey (NJ)	Treton	20168	8,143,412	jected, largely as the result of immigration
New Mexico (NA	d)Santa Fe	314923	1,739,844	The US population used to be called a melt
New York (NY)	Albany	127190	18,196,601	ing pot; now it is thought of as a 'salad bowl
North Carolina				with discrete ingredients. Even so there is ex
(NC)	Raleigh	136413	7,650,789	tensive inter-marriage. One-quarter of His
North Dakota				panics who wed in the USA marry non-His
(ND)	Bismarck	183118	633,666	panics. One third of Asian-Americans marry
Ohio (OH)	Columbus	107045	11,256,654	non-Asians. Black and white are less likely to
Oklahoma (OK)	Okthorna Cr	y 181186	3,358,044	intermarry.
				-

Oregon (OR) Salem

251419 3,316,154

States of the Union

Manorama Yearbook 2007

Recent Events: In March 2006, Congress renewed the USA Patriot Act, a centrepiece of the government's fight against terrorism, after months of debate about its impact on civil liberties. The government agreed to some curbs on information gathering. Millions of immigrants and their supporters took to the streets to protest against plans to criminalise illegal immigrants. The only man to be charged over September 11 attacks, self-con-

Mission In India: Embassy of the USA, American Embassy, Chanakyapuri, New Delhi- 110021. Tel: 24198000; Fax: 24190017; Foreign Commercial Service and Library of Congress- 24, Kasturba Gandhi

fessed al-Qaeda conspirator Zacarias Moussaoui, was sentenced to life in jail.

Marg, New Delhi-110 001; Tel:23316841. E-mail: NDBoxMEA @STATE.GOV Consulate: Calcutta: 5/1, Ho Chi Minh

Sarani, Calcutta-700 071, West Bengal, Tel: 91 33 2282-3611/15 Email: Consular Calcutta@state.gov; Mumbai: Lincoln House, 78, Bhulabhai Desai Road, Mumbai-400 026, Tel: (22) 2363-3611 Email: webmaster-

mumbai@state.gov; Chennai: Gemini circle,

220, Anna Salai, Chennai-600 006, Tel: 2811-2000 Email; chennailV@state.gov Indian Mission in United States of America:

Embassy of India, 2107, Massachusetts Ave, NW, Washington DC 2008. Tel: 00-1-202-

9397000; Fax: 00-1-202-2654351. E-mail:indembwash@indiagov.org

Outlying Territories Puerto Rico: (Commonwealth of Puerto

Rico); Capital: San Juan; Area: 8891 sq.km; Population: 4 m.; Languages: Spanish and En-

glish; Religions: Christianity; Currency: Dollar, p.c.l: \$6,360

Covernor: Dr.Pedro Rossello. The island of Puerto Rico lies 80 km east of Hispaniola (Haiti and Dominican Republics) in the outer Caribbean. In 1952, it ceased to be a colonial possession and became a free Commonwealth. It has close ties with U.S People have U.S. citizenship with no votino rights.

From a purely agricultural country, Puerto Rico (formerly Porto Rico) is fast changing to

an industrial economy and is the wealthies Caribbean island. "The Poor house of the Car ibbean" was changed to an area with one o

the highest standards of living in Latir America, thanks to the famous "Operation Bootstrap" begun in the late 40s. In a referendum in November, 1993, Puerto

Ricans said no to total merger with USA. The main crops are sugar, tobacco and cof fee. Industries include textiles, clothing, ci gars, alcohol, chemicals and household ap-

revenue. Guam: Area: 541 sq.km.; Population

pliances. Tourism is an important source o

149,620; Capital: Agana. Commonwealth of the N.Mariana is: Area 477 sq.km.; Population: 45,200; Capital

Saipan. American Samoa: Area: 199 sq.km. Population: 55,223; Capital: Pago Pago.

Other Pacific territories: Johnston Atol (Two small islands 1150 km. southwest of Hawaii. Population: 1200; Midway Islands

Virgin Islands of the United States:

(Two small islands at the western end of the Hawaiian chain. Population: 453 (1980). Wake Island(Three small islands 3700 k.m. west of Hawaii, Population: 302(1980).

Area:342 sq.km. Population: 101,809; Capital: Charlotta Amalie.

189. Uruguay

(Oriental Republic of Uruguay) Republica On-

ental del Uruguay.

Capital: Montevideo, Other Large Cities Salto, Rivera, Area: 176,215 sq km. Popula

tion: 3,431,932, Languages 😘 🖖 gions: Roman Catholic by # 10 16 16



Jewish-1%, non-Professing or others-31%; Literacy: 98%; Life Expectancy: 76.33; Currency: Peso (\$1=23.8); p.c.i: \$ 9,600; Date of Independence: 25th August, 1825

Government Type: Republic; Head of State & Govt (President): Tabare Vazquez.

The smallest republic in South America, Uruguay lies in southern S. America, on the Atlantic Ocean.

History: Formerly a part of the Spanish Viceroyalty of Rio de la Plata and subsequently a province of Brazil, Uruguay became independent on Aug. 25, 1825. After a military coup of 1976, civilian government was restored in 1985.

Economy: Livestock-raising is Uruguay's prinicipal occupation and takes up 60 per cent of its total land area. The chief products are meat, wool, hides, corn, wheat, citrus fruit, rice, tobacco, oats and linseed. Important industries are vinery, meatpacking, textiles, cement and oil products.

Socialist measures were adopted as far back as 1911. The welfare programmes earned Uruguay a reputation as the Switzerland of Latin America.

Mission in India: Embassy of Uruguay, A-16/2, Vasant Vihar, New Delhi-110 057, Tel: 26151991, 26151992; Fax: 2614 4306.

E-mail:uruind@del3.vsnl.net.in

190. Uzbekistan

Ozbekiston Republikasy Capital: Tashkent; Other Large Cities: Samarkhand, Namangan; Area: 447,400 sq.km.; Population: 27,307,134; Languages: Uzbek, Russian; Religions: Muslim-88% (mostly Sunnis), Eastern Orthodox-9%, others-3%; Literacy: 99.3%; Life Expectancy: 64.58; Currency: Som (\$1=1222.8), p.c.i.: \$1,800; Date of Independence: 1st September, 1991.

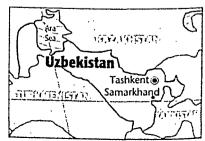
Government Type: Republic; President: Islam A. Karimov; PM: Shavkat Mirziyayev.

History: A former Soviet republic that became independent in Dec., 1991, Uzbekistan is bordered by Kazakhstan, Kyrgyzstan, Tajikistan, Afghanistan and Turkmenistan.

Economy: Agriculture: Uzbekistan has an excellent record in agriculture. Intensive farming, based on artificial irrigation is practised. It is the chief cotton-growing area in former Soviet Union and the third in the world. It produced 65% of the total cotton, 50% of the total rice and 60% of the total lucerne grown in the former union. Crops: cotton, lucerne, grain, potatoes, vegetables, grapes, fruit and berries. Natural resources: Oil, coal, copper, ozocerite, building materials. Industry: Agricultural machinery, cement, textiles, paper, ferroconcrete.

The Roman alphabet (in use 1929-40) was re-introduced in 1994.

Recent Events: In March 2006, Sanjar Umarov, head of the Sunshine Uzbekistan opposition movement, was jailed for 11 years - later reduced to eight-for economic crimes. The group had criticised the Andijan crackdown and had urged economic reform.



ts activist Mukhtabar Tojibayeva, a critic ne Andijan crackdown, was jailed for eight rs for economic crimes.

rs for economic crimes. Aission in India: Embassy of the Republic

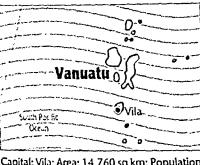
Jzbekistan, EP-40,Radhakrishnan Marg, anakyapuri, New Delhi-110021, Tel: 670774, 24670775, 24105640; Fax: 670773. E-mail:uzembind@vsnl.com

Indian Mission in Uzbekistan: Embassy of dia,5 Ulitsa Alexie Tolstogo No.3, Tashnt, Uzbekistan. Tel: 00-998-71-1338357; x: 00-998-71-13619756.

E-mail:indemb@online.ru

91. Vanuatu

lepublic of Vanuatu) Ripablik Blong Vanuatu



Capital: Vila; Area: 14,760 sq km; Population: 208,869; Languages: English, French and Bislama; Religions: Presbyterian-36.7%, An-

glican-15%, Roman Catholic-15%, indigenous beliefs-7.6%, Seventh-Day Adventist-6.2%, Church of Christ-3.8%, others-15.7%; Literacy: 74%; Life Expectancy: 62.85; Cur-

rency: Vatu (\$1=113.45); p.c.i: \$ 2,900; Date of Independence: 30th July, 1980.

Government Type: Parliamentary Republic; President: Kalkot Matas Kelekele; PM: Ham Lini.

History: The Anglo-French condominium of the New Hebrides became independent under the name Vanuatu on July 30, 1980. It is a double chain of 13 large and 80 small ulands in South West Pacific. The largest island is the Espiritu Santo. Originally a haunt

of European pirates, they came under the control of France and Britain in 1906. The population is overwhelmingly Melanesian.

Economy: The major cash crops are copra, coffee and cocoa. Vanuate is a popular tourist destination in the South Pacific.

Industry: Fish-freezing, meat canneries, tourism. Manganese has been mined since 1961 and exported to Japan.

192. Vatican City

(The Holy See) Sato della Cittadel Vaticano



Capital: Vatican City; Area: 0.4 sq. km.; Population: 900; Languages: Latin and Italian; (All languages accepted); Religions: Roman Catholic; Literacy: 100%.; Currency: Euro (\$1=0.79); Date of Independence: 11th February, 1929.

Government Type: Ecclesiastical; Supreme Pontiff: Pope Benedict XVI (Cardinal Joseph Ratzinger). Secretary of State: Angelo Sodano.

The Vatican city state, sovereign and independent, is situated on the Vatican hill, on the right bank of the Tiber, within the commune of Rome, Italy. It is completely surrounded by?Italy. Vatican City, the City of the Pope, includes St. Peter's Cathedral, Vatican Palace and Museum, the Vatican Gardens and neighbouring buildings. Vatican has its own railway station (for freight only), postal system, police, coins and radio Radio Vaticana broadcasts an extensive service in 34 lan-

guages.

The city state is governed by a commison appointed by the Pope, who has full leal, executive and judicial powers. The reaon for its existence is to provide an extraerritorial, independent base for the Holy See, the government of the Roman Catholic Church. In Dec. '93, the Vatican and Israel agreed to establish formal relations. In March, 1997 Vatican established diplomatic ties with Libya.

193. Venezuela

(Republic of Venezuela) Republica de Venezuela



Capital: Caracas; Other Large Cities: Maracaibo, Valencia; Area: 912,050 sq. km.; Population: 25,730,435; Languages: Spanish; Religions: Nominally Roman Catholic-96%, Protestant-2%, others-2%; Literacy: 93.4%; Life Expectancy: 74.54; Currency: Bolivar, (\$1=2,559.14); p.c.i: \$ 6,100; Date of Independence: 5th July, 1811.

Government Type: Federal Republic; Head of State & Govt. (President): Hugo Chavez.

History: Venezuela (Little Venice) on the Caribbean coast is the northermost state of South America. Sighted by Columbus in 1498, it was formerly a Spanish colony. Venezuela became independent in 1811 and a republic in 1830. Military strongmen ruled Venezuela for most of the 20th century. Since 1959, it has had democratically elected governments. Venezuela is the richest and most urbanised Latin American nation. The world's

highest waterfall, Angel Falls, with an overall drop of 979 m. is in Venezuela.

Economy: Venezuela, a member of the OPEC, is one of the world's leading producers of oil and the largest oil exporter outside the Middle East. Venezuela is rich in diamonds and ranks 8th in world production. Other minerals are iron, steel, aluminium, copper, tin and manganese. Agricultural products include coffee, cocoa, bananas, maize, rice and sugar. President Chavez won a landslide victory

for a six-year term, in August, 2000 capturing 59% of the votes.

Recent Events: Parties loyal to president Chavez made big gains in parliamentary elections. Opposition parties boycotted the poll, leaving parliament entirely made up of supporters of the president

Mission in India: Embassy of Venezuela, N-114, Panchshila Park, New Delhi-110 017. Tel: 26496535, 26496783; Fax: 26491686. E-mail:embavene@del2.vsnl.net.in

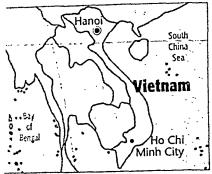
Indian Mission in Venezuela: Embassy of India, Quinta Tagore, No.12, Avenoda San Carlos, La Floresta, Apartado de Correo 61585, Chacao 1060, Caracas, Venezuela. Tel: 00-58-212-2857887; Fax: 00-58-2865131.

E-mail:embindia@eldishcom.ve Website: http://www.embindia.org

194. Vietnam

(Socialist Republic of Vietnam) Cong Hoa Xa Hoi Chu Nghia Viet Nam

Capital: Hanoi; Other Large Cities: Ho Chi Minh City, Haip-Hong, Hue; Area: 329,566 sq. km; Population: 84,402,966; Languages: Vietnamese, French, English, Chinese; Religions: Buddhist, Hoa Hao, Cao Dai, Christian (predominantly Roman Catholic, Some Protestant), indigenous beliefs, Muslim; Literacy: 90.3%; Life Expectancy: 70.85; Currency: Dong (\$1=16983); p.c.l: \$ 2,800; Date of Independence: 2nd September, 1945.



Government Type: Communist State; President: Nguyen Minh Triet; PM: Nguyen Tan Dung

History: The Socialist Republic of Vietnam (comprising former North and South Vietnam) is a mountainous country in south east Asia. Running almost its entire length, is a mountain chain—the Annamite Chain. On one side of the mountain chain is the fertile Red River delta in the north and on the other side is the Mekong delta in the south. The two deltas form the rice bowl of the country.

Vietnam War was fought mainly in South Vietnam from 1954 between US backed government forces and Viet Cong. guerrillas supported by North Vietnam and Soviet armaments. US support of south began in 1961 and intensified from 1964. War formally concluded in 1973 but guerrilla activities continued in South. South Vietnam fell to communist forces in 1975 and gradual political reintegration followed. The unification of North and South Vietnam into the socialist Republic of Vietnam took place formally on July 2,1976. The Northern capital, flag, anthem, emblem and currency were applied to the new state.

Economy: The country is primarily agricultural. Rice is the dominant crop and an export item. Other crops are rubber, sugarcane, coffee, maize and tea. Minerals include coal, t.n., copper, chromium and phosphate. Industry: Cement, metallurgy, chemicals, paper, food processing and textiles.

After 3 million died defending their country, women outnumber men three to one in Vietnam.

Recent Events: Senior officials were investigated over the alleged embezzlement of millions of dollars of state money in the transport ministry. As part of an anticipated political shake-up, the prime minister, president and National Assembly chairman were replaced by younger leaders.

Mission in India: Embassy of the Socialist Republic of Vietnam, 17, Kautilya Marg, Chanakyapuri, New Delhi-110?021. Tel: 23018059 (Visa Section), 23019818 (Ambassa-dor's Office); Fax: 91-11-23017714.

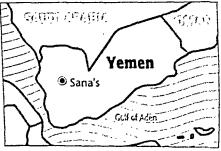
E-mail:sqdelhi@del3.vsnl.net.in

Indian Mission in Vietnam: Embassy of India, 58-60, Tran Hung Dao, Hanoi, Vietnam. Tel: 00-84-4-8244989; Fax: 00-84-4-8244998.

E-mail:india@netnam.org.vn

195. Yemen

(Republic of Yemen) Al Jumhuriyah al Yamaniyah



Capital: Sana'a; Commercial (and winter)
Capital: Aden; Area: 531,000 sq km; Population: 21,456,188; Languages: Arabic; Religions: Muslim including Shaf'i (Sunni) and Zaiydi (Shi'a), small numbers of Jew, Chistian, and Hindu; Literacy: 50.2%; Life Expectancy: 62.12; Currency: Rial (\$1=196.86); p.c.i: \$900; Date of Independence: 22nd May, 1990.

Government Time Republic Braddons

Col. Ali Abdullah Saleh PM:Abd al-Qadir Ba lamal.

History: North and South Yemen merged in May 1990 into a United Republic of Yemen in the south west of the Arabian peninsula. North Yemen was established in 1962 while South Yemen (formerly Aden and the Protectorate of South Arabia) became independent in 1967.

Centuries ago Yemen was a rich land of exotic spices, frankincense and myrrh. The legendary Queen of Sheba ruled the kingdom then known as Happy Yemen. South Yemen became the Arab world's only Marxist nation after independence.

In 1994, regional clan-based rivalries led to full-scale civil war. On May 5, S.Yemen declared itself an independent state, breaking away from united Yemen. The 2-month war ended on July 7, when Aden, fell to the northern forces. Losses caused by the conflict is estimated at \$3 b.

Parliamentary elections were held in Apr. 1997.

Economy: The economy is chiefly based on oil and agriculture. The main agricultural products are coffee, dates, herbs, fruits, wheat, millet and maize. Cotton, coffee, hides and skins are exported. Industries: Food processing, mining and petroleum refining.

Recent Events: In March 2006, more than 600 followers of slain Shia cleric Hussein al-Houthi who were captured following a rebellion he led in 2004 were released under an amnesty.

Mission In India: Embassy of the Republic of Yemen, J-16, Hauz Khas, New Delhi-110 016, Tel: 26602482 (Ambassador's Office); Fax: 26602483

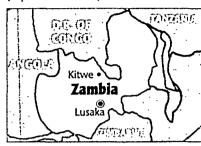
E-mail; yemenembnd@yahoo.com

Indian Mission in Yemen: Embassy of India, Building No. 12, Djibouti Street, Post Box No. 1154, Sana'a, Yemen. Tel: 00-967-1-508084, 508085; Fax: 00-967-1-508105

E-mail:indiaemb@y.net.ye

196. Zambia

(Republic of Zambia)



Capital: Lusaka; Other Large Cities: Kitwe, Chingola; Area: 752,620 sq km; Population: 11,502,010; Languages: Bantu and English; Religions: Christian-50-75%, Muslim and Hindu-24-49%, indigenous beliefs-1%; Literacy: 80.6%; Life Expectancy: 40.03; Currency: Kwacha (\$1=3,436); p.c.i: \$ 890; Date of Independence: 24th October, 1964.

Government Type: Republic; President: Levy Patrick Mwanawasa; PM:

Zambia, a landlocked republic in south central Africa, takes its name from the River Zambezi, one of its biggest rivers. Originally known as Northern Rhodesia, it is separated from Zimbabwe by the Zambezi river. Kariba Dam, one of the biggest man-made dams in the world, is on the Zambezi river where it makes the border between Zambia and Zimbabwe.

History: Zambia, under the administration of the South Africa Company from 1889 to 1924, became independent republic within the Commonwealth republic on October 24, 1964. In the 1980s, decline in copper prices hurt the economy. June 1990 witnessed severe violence caused by food nots. One-party rule came to

an end with October 1991 elections.

Economy: Maize, tobacco, millet, cassava, groundnuts, cotton and sugar are produced. The country is rich in minerals including copper, zinc, cobalt, lead, uranium and manganese. Although copper mining dominates Zambia's economy, the country made a ma-

of the crippling fluctuations of copper prices in the world market. President Chiluba reversed 27 years of command-economy socialism under Kaunda.

jor shift to agricultural production, as a result

cialism under Kaunda.

Over 500,000 children had been orphaned by the AIDS epidemic by the late 1990s.

Recent Events: In April 2006, president Mwanawasa suffered a minor stroke. He resumed "light duties" after some weeks and

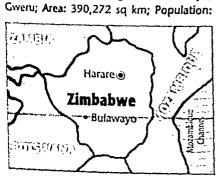
later declared himself fit to run for re-election towards the end of the year. Mission in India: High Commission of the

Republic of Zambia, C-79, Anand Niketan, New Delhi-110 021. Tel: 24101289, 24101292; Fax: 24101520. E-mail:zambiand@sify.com Indian Mission in Zambia: High Commis-

sion of India, 1, Pandit Nehru Road, P.O. Box 32111, Lusaka, Zambia. Tel: 00-260-1-253159, 253066; Fax: 00-260-1-254118. E-mail:consular@india.zm

197. Zimbabwe

(Republic of Zimbabwe)
Capital: Harare; Other Large Cities: Bulawayo,



12,236,805; Languages: English, Shona and Ndebela; Religions: Syncretic (partly Christian, partly indigenous beliefs)-50%, Christian-25%, indigenous beliefs-24%, Muslim and others-1%; Literacy: 90.7%; Life Expect-

ancy: 39.29; Currency: Dollar.(ZWD)

(\$1=101196); p.c.i: \$ 2,300; Date of Independence: 18th April, 1980 Government Type: Parliamentary Democracy;

Head of State & Govt (President): Robert G.Mugabe.
History: A landlocked country in SC Africa, Zimbabwe (formerly Southern Rhodesia) has Zam-

babwe (formerly Southern Rhodesia) has Zambia, Botswana, S. Africa and Mozambique as neighbours. Achieved independence on April 18, 1980, after a bitter struggle against the white minority government in power. Economy: Zimbabwe is rich in minerals notably copper, nickel, gold, asbestos, chrome and coal. Its platinum deposits are the world's largest. Over 40 different types of metals and minerals are produced. About 40% of foreign

tiles, furniture and engineering. Maize, groundnuts, cotton and tobacco are the chief crops, tobacco being the most important one. Zimbabwe is world's second largest exporter of flue-cured tobacco, after Brazil. Zimbabwe's agricultural performance has been hailed as

the best in black Africa. Tourism is the fastest

growing sector in the country. About one-

exchange is derived from the export of metals, minerals and mineral related products. In-

dustries include food processing, metals, tex-

fourth of the adult population has HIV/AIDS. A referendum rejected the new draft constitution in early 2000. In April, the constitution was amended to give the Govt. the right to seize white-owned farms without compensation. Mugabe, armed with the new law, went ahead with his plans to confiscate 804 farms belonging to Whites, to be redistributed to ordinary Zimbabweans. In June, 2000 election,

Recent Events: Ruling Zanu-PF party won an overwhelming majority of seats in a newlycreated upper house of parliament, the Senate. The opposition MDC split over its leader's decision to boycott the poll. In May 2006,

Mugabe's party scored a narrow win.

year-on-year inflation exceeded 1,000%.

Mission In India: High Commission of the

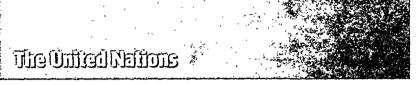
Vasant Vihar, New Delhi-110057, Tel: 26140430, 26140431; Fax:26154316.

E-mail:zimdelhi@vsnl.net

Indian Mission in Zimbabwe: High Commis-

sion of India, No. 12, Natal Road, Belgravia, Post Box 4620, Harare, Zimbabwe. Tel: 00-263-4-795955: Fax: 00-263-4-722324.

E-mail:hcihre@internet.co.zw



The name 'United Nations' was devised by United States President Franklin D. Roosevelt and was first used in the Declaration by United Nations of 1 Jan. 1942, during the Second World War, when representatives of 26 nations pledged their Governments to continue fighting together against the Axis Powers

The United Nations is the hope and con science of the world, more especially of the smaller nations among its 191 members. It is an association of states which have pledged themselves to maintain international peace and security and co-operate in solving international political, economic, social, cultural and humanitarian problems towards achieving this end.

The United Nations Charter, the constituting instrument of the UN, was drawn up by . the representatives of 50 countries at the United Nations Conference on International Organisation, which met in San Francisco from 25 April to 26 June 1945. Those delegates deliberated on the basis of proposals worked out by the representatives of China. the Soviet Union, the United Kingdom and the United States at Dumbarton Oaks (Washington, DC) from 21 Aug. to 28 Sept. 1944. The Charter was signed on 26 June 1945 by the representatives of the 50 countries. Poland, which was not represented at the Conference, signed it later and became one of the original 51 Member States.

The United Nations officially came into existence on 24 Oct. 1945, with the deposit of the requisite number of ratifications of the Charter with the US Department of State. United Nations Day is celebrated on 24 Oct. each year.

New Member States are admitted by the General Assembly on the recommendation of the Security Council. Tuvalu was admitted in Sept, 2000 as the 189th member. East Timor was admitted as a member of the UN in September, 2002. Switzerland joined the world organisation in the same month. Montenegro became a UN member on 28 June, 2006.

In 1971 Communist China was admitted as the representative of all China. Red China thus became a permanent member of the Security Council. Taiwan lost its primary membership of the UN. Vatican is a permanent observer.

Official languages of the UN are: Arabic, Chinese, English, French, Russian and Spanish.

Flag of the UN: On the flag is the UN emblem in white centred on a light blue ground.

The UN has a post office originating its own stamps. Some 52,100 people work in the UN system.

The Secretary General Kofi Annan and the UN were jointly given the Nobel Prize for Peace in 2001.

The Year 2005 was proclaimed the International Year of physics by the UN.

Headquarters: First Avenue, UN Plaza, New York City, N.Y. 10017, USA.

embly, Secretariat, Security Council, Trusthip Council, Economic and Social Counand International Court of Justice.

rincipal Organs of the UN are: General

eneral Assembly e Assembly consists of the representatives

all the member states. Each state has one ste, but may send 5 representatives. The eneral Assembly meets at least once in a

ear. It elects its own President and Vice Presients every year.

ecurity Council ecurity Council consists of 15 members, each

elected for a 2-year term by a two-thirds majority of the General Assembly. The permanent members have the power to veto any

of which has one vote. There are five perma-

nent and 10 non-permanent members

move. Retiring members are not eligible for immediate re-election.

The Presidency of the Security Council is held for one month in rotation by the member states

in the English alphabetical order of their names.

Permanent Members: China, France, Russia, UK, USA. Non-permanent Members:
Congo, Ghana, Peru, Qatar, Slovakia (until

Dec. 31, 2007), Argentina, Denmark, Greece, Japan, United Republic of Tanzania (until Dec. 31, 2006).

The expansion of the Security Council to

include 'new powers' such as India, Germany

and Japan as permanent members has been suggested by various fora.

Economic and Social Council

The Economic and Social Council (54

nembers) is responsible under the General Assembly for carrying out the functions of the United Nations with regard to international

United Nations with regard to international economic, social, cultural, educational, health and related matters. The Council's Regional Economic Commissions: ECE (Economic

Commission for Europe, Geneva); ESCAP

(Economic and Social Commission for Asia

and the Pacific, Bangkok); ECLAC (Economic Commission for Latin America and the Carribbean, Santiago, Chile); ECA (Economic Commission for Africa, Addis Ababa). ESCWA (Economic Commission for Western Asia, Amman, Jordan).

Trusteeship Council The Charter provides for an international

trusteeship system to safeguard the interests of the inhabitants of territories which are not yet fully self-governing and which may be placed thereunder by individual trusteeship agreements. These are called trust territories.

All of the original 11 trust territories have

become independent or joined independent

Members: China, France, Russia, UK, USA.

International Court

The International Court of Justice was created

Haque, Netherlands.

countries.

Court, which forms an integral part of the United Nations Charter. All members of the United Nations are ipso facto parties to the Statute of the Court. There are 15 judges. Headquarters: The Peace Palace, 2517 KJ The

by an international treaty, the Statute of the

The 15 judges are elected for 9-year terms by the General Assembly and the Security Council. Retiring judges are eligible for reelection. The court remains permanently in session, except during nations. All questions are decided by majority.

Website: http://www.icj-cij.org President : Shi Jiuyong (China) Registrar: Philippe Couvreur (Belgium)

Registran: Philippe Couvreur (Belgium)

The Court has its seat at The Hague, but
may sit elsewhere whenever it considers this

desirable. The expenses of the Court are borne by the UN.

Languages: French and English.

The Secretariat

The Secretariat is composed of the Secretary-General, who is the chief administrative

officer of the organisation and an international staff appointed by him under regulations established by the General Assembly. However, the Secretary General, the High Commissioner for Refugees and the Managing Director of the Fund are appointed by the General Assembly. HQ: United Nations Plaza, New York, NY 10017, USA.

Website:http://www.un.org

Secretary-General: Kofi Annan (Ghana) was appointed on 1st January, 1997 for a five-year term. He has been re-elected for a second term.

On Jan. 12, 1998, Louise Frechette (Canada) was appointed Deputy Secretary-General.

In addition to the 18 independent specialised agencies, there are some 14 major United Nations programmes and funds devoted to achieving economic and social progress in the developing countries.

United Nations Development Programme

United Nations Development Programme (UNDP), is the world's largest agency for multilateral, technical and pre-investment co-operation. It is the funding source for most of the technical assistance provided by the United Nations system.

HQ: New York

Administrator: Mark Malloch Brown (UK)

United Nations Children's Fund

United Nations Children's Fund (UNICEF), established in 1946 as United Nations International Children's Emergency Fund to deliver post-war relief to children, now concentrates its assistance on development activities aimed at improving the quality of life for children and mothers in developing countries.

HQ: New York

Executive Director: Ms. Ann M. Veneman (USA)

The UN Fund for Population Activities

The UN Fund for Population Activities

(UNFPA), established in 1969, carries out programmes in over 130 countries and territories. The Fund's aims are to build up capacity to respond to needs in populaton and family planning.

Executive Director: Ms. Thoraya Ahmed Obaid (Saudi Arabia).

UN Environment Programme (UNEP)

Established in 1972, it works to encourage sustainable development through sound environmental practices.

Executive Director: Achim Steiner (Germany).

Relief Agencies

Among the organisations involved in relief activities are the Office of the UN Disaster Relief Co-ordinator (UNDRO), the Office of the UN High Commissioner for Refugees (UNHCR) and the UN Relief and Works Agency for Palestine Refugees in the Near East (UNRWA).

Commissioner-General: Giorgio Giacomelli.

United Nations High Commissioner for Refugees

United Nations High Commissioner for Refugees (UNHCR) was established by the UN General Assembly with effect from 1 Jan. 1951.

For its work on behalf of refugees around the world, UNHCR was awarded the Nobel Peace Prize in 1955 and again in 1981.

HQ: Palais de Nations, 1211, Geneva 10, Switzerland.

High Commissioner: Antonio Guterres (Portugal)

High Commissioner for Human Rights

The post was established in 1993. The Commission has 53 members.

High Commissioner: Louise Arbour (Canada)

Specialised Agencies

International Atomic Energy Agency International Atomic Energy Agency (IAEA),

came into existence on 29 July 1957. Member States: 138.

HO: Vienna International Centre, P.O. Box 100. A-1400 Vienna, Austria.

Website: http://www.iaea.or.at/worldatom

Director-General: Mohamed El Baradei (Egypt).

United Nations Industrial Development Organisation

United Nations Industrial Development Organisation (UNIDO), provides developing and underdeveloped countries with advice on all aspects of industrial policy. Converted into a specialised agency of UN in 1985.

HQ: Vienna International Centre, P.O.Box 300, A-1400 Vienna, Austria.

Website: http://www.unido.org

Director-General: Carlos Alfredo Magarinos

Food and Agriculture Organisation (FAO)

The UN Conference on Food and Agriculture in May 1943, at Hot Springs, Virginia, set up an Interim Commission in Washington in July 1943 to plan the FAO, which came into being on 16th October 1945. Sponsors the World Food Programme.

HQ: Viale delle Terme di Caracalla, 00100 Rome, Italy.

Website.http://www.fao.org Director-General: Jacques Diouf (Senegal)

United Nations Educational, Scientific and Cultural Organisation (UNESCO)

A Conference for the establishment of an Educational, Scientific and Cultural Organisation of the United Nations was convened by the Government of the UK in association with the Covernment of France, and met in London,

۲.

1 to 16 Nov. 1945. UNESCO came into being on 4 Nov. 1946.

HQ: UNESCO House, 7 Place de Fontenoy, 75352 Paris O7SP, France, .

Website.http://www.unesco.org

Year	Name	Nation	
1946	Trygve Lie	Norway	
1953	Dag Hammarskjold Sweden		
1961	U Thant	Burma	
1972	Kurt Waldheim	Austria	
1982	lavier Peres De		

Peru

Egypt

Ghana

Cuellac

Ghali

1997– Kofi Annan

1992

Director General: Koichiro Matsuura (lapan).

Dr. Boutros Boutros

World Health Organisation (WHO)

An International Conference, convened by the UN Economic and Social Council, to consider a single health organisation resulted in the adoption on 22 July 1946 of the constitution of the WHO.

HQ: Avenue Appia 20, CH-1211 Geneva 27, Switzerland

Rql. Offices: Alexandria, Brazzaville, Copenhagen, Manila, New Delhi, Washingtan.

Website:http://www.who.int Director-General: Lee Jong-Wook (S. Korea)

International Monetary Fund (IMF)

The International Monetary Fund was established on 27 Dec. 1945 as an independent international organisation and began operations on 1 March 1947. The IMF aims to preserve economic stability and to tackle-or ideally prevent - financial crises. Over time, its focus has switched to the developing world, HQ: 700 19th St. NW, Washington, D.C, 20431, USA. Offices in Paris and Cenera.

Website: http://www.imf.org

Managing Director: Rodrigo de Rato (Spain)

and Development (IBRD) Conceived at the Bretton Woods Conference, July 1944, the 'World Bank' began operations in lune 1946. HO: 1818 H. St. NW, Washington, D.C.,

International Bank for Reconstruction

20433, USA Website: http://www.worldbank.org President: Paul Wolfowitz (USA)

International Development Association A lending agency which came into existence

on 24 Sept., 1960. Administered by the World Bank, IDA is open to all members of the Bank. International Finance Corporation International Finance Corporation (IFC) is an

affiliate of the World Bank, Established in July 1956. HQ: 1850 ISt., NW, Washington, D.C., 20433, USA. Website:http://www.ifc.org President: Paul Wolfowitz (USA) International Civil Aviation

International Civil Aviation Organisation (ICAO) formed in Nov-Dec. 1944. HQ: 999, University Street, Montreal, PQ, Canada H3C 5H7.

Website: http://www.icao.org

Organisation

tia) Universal Postal Union

Secretary-General: Dr. Taieb Cherif (Alge-

Universal Postal Union (UPU) was established on 1 July, 1875, when the Universal Postal Convention adopted by the Postal Congress of Berne on 9 Oct. 1874 came into force.

HQ: Weltpoststrasse 4, 3000 Berne 15, Switzerland.

Website:http://www.upu.int

Director-General: Edouard Dayan (France) International Telecommunication

Union (ITU) The International Telegraph Union, founded tion of 1932 to form the ITU. HQ: Place des Nations, CH-1211 Geneva-20, Switzerland. Website:http:// www.itu.int

in Paris in 1865, and the International Ra-

diotelegraph Union, founded in Berlin in

1906, were merged by the Madrid Conven-

Secretary-General: Yoshio Utsumi (Japan) international Labour Organ sation

ments, employers and workers participate.

In 1969 the organi-sation won the Nobel

International Labour Organisation (ILO) established in 1919 as an autonomous part

of the League of Nations, is an intergovernmental agency with a tripartite structure, in which representatives of govern-

Peace Prize. Has 150 members.

HQ: International Labour Office, CH-1211, Geneva 22, Switzerland. Website: http://www.ilo.org

Director-General: Juan Somavia (Chile).

World Meteorological Organisation

(WMO)

Conference of Directors of the International

Meteorological Organisation (set up in 1873), meeting in Washington in 1947, adopted a convention creating the WMO. HQ: Case Postale 2300, CH-1211

Geneva-2, Switzerland.

Secretary-General: Michel Jarraud (France)

The International Maritime Organisation

The International Maritime Organisation

(IMO) was established as a specialised

agency of the UN by the UN Maritime Conference at Geneva in Feb./Mar. 1948. HQ: 4 Albert Embankment, London SEI 7SR,UK. Website: http://www.imo.org

Secretary-General: Efthimios Mitro-

poulos (Greece) **World Trade Organisation**

The World Trade Organisation (WTO) is

Manorama Yearbook 2007

Member States of the UN (Nation/Year of admission)

	** * * * * * * * * * * * * * * * * * * *			1
	1946 65. Germany	1973		1960
nguariismi.	1955 66. Ghana	1957		1945
がDDUIT	1962 67. Greece	1945	13114111-11	19/1
Algena	1993 68. Grenada	1974		1947
Augoria	1976 69. Guatemala	1945	100,100,00	1994
	1981 70. Guinea	1958		1945
Antigus and barbes	1945 71. Guinea-Bissau	1974	135.Papua New Guinea	1975
Argentina	1992 72. Guyana	1966	136. Paraguay	1945
Armenia	1945 73. Haiti	1945	137. Peru	1945
Australia	1955 74. Honduras	1945	138.Philippines	1945
Austria	1992 75. Hungary	1955	139.Poland	1945
. Azerbaijan		1946	140.Portugal	1955
. Bahamas		1945	141.Qatar	1971
. Bahrain		1950	142.Romania	1955
I. Bangladesh		1945	143. Russia	1945
5. Barbados	1966 79. Iran	1945	144.Rwanda	1962
6. Belarus	1945 80. Iraq	1955	145. St. Kitts and Nevis	1983
7. Belgium	1945 81. Ireland, Rep. of	1949	146 St. Lucia	1979
8. Belize	1981 82. Israel	1955	147. St. Vincent and Grenadine	s1980
9. Benin	1960 83. Italy	1962	148. Samoa	1976
20. Bhutan	1971 84. Jamaica	1956	149. San Marino	1992
21. Bolivia	1945 85. Japan	1955	150, Sao Tome & Principe	1975
22. Bosnia-Herzegovina	1992 86. Jordan	1992	151. Saudi Arabia	1945
23. Botswana	1966 87. Kazakhstan	1963	152. Senegal	1960
24. Brazil	1945 88. Kenya		153. Seychelles	1976
25. Brunei	1984 89. Kiribati	1999	154. Sierra Leone	1961
26. Bulgana	1955 90. Korea (North)	1991		1965
27. Burkina Faso	1960 91, Korea (South)	1991	155. Singapore	1993
28. Burundi	1962 92. Kuwait	1963	156. Slovakia	1992
29. Cambodia	1955 93. Kyrgyzstan	1992	157. Slovenia	1978
30. Cameroon	1960 94. Laos	1955	158. Solomon Islands	1960
31. Canada	1945 95. Latvia	1991	159. Somalia	1945
32. Cape Verde	1975 96. Lebanon	1945	160. South Africa	1955
33. Central African Rep	ublic1960 97. Lesotho	1966	161.Spain	1955
34. Chad	1960 98. Liberia	1945	162. Sri Lanka	1956
35. Chile	1945 99. Libya	1955	163. Sudan	1975
36. China	1945 100. Liechtenstein	1990	164. Suriname	. 1
37. Colombia	1945 101.Lithuania	1991	165. Swaziland	1968
38. Comoros	1975 102.Luxembourg	1945	166.Sweden	1946
39. Congo, Rep. of the	1960 103, Macedonia	1993	167.Switzerland	2002
40. Congo, D.R. of the		1960	168. Syria	1945
41. Costa Rea	1945 105.Malawi	1964	169. Tajikistan	1992
42. Cote d-lycare	1960 106. Malaysia	1957	170.Tanzania	1961
43. Croatia	1992 107, Maldives	1965	171. Thailand	1946
44. Cuba	1945 108. Mali	1960	172.Togo	1960
45. Cyprus	1960 109, Malta	1964		1999
46. Czech Republic	1993 110 Marshall Islands	1991	174. Trinidad and Tobago	1962
47. Dermark	1945 111, Mauritania	1961		1956
43. Dj.bouti	1945 111. Mauritania 1977 112. Mauritius	1968	3 176.Turkey	1945
49. Dominica	1978 113.Mexico	1945	5 177. Turkmenistan	1992
50. Dominican Repub	Sic 1945 114 Micronesia	1991	1 178.Tuvalu	2000
51. East Timer	2002 115.Moldova	1993	2 179.Uganda	1962
52. Ecuador	1945 116.Monaco	199	3 180.Ukraine	1945
53. Egypt	1945 117.Mongolia	196	1 181. United Arab Emirates	s 1971
54. El Salvador	1945 118.Montenegro	260		1945
55. Equational Curre	3 1968 119 Merceco	195		1945
56. Entrea	1993 120. Mozambique	197		1945
57. Estonia	1993 120. Mozambique 1991 121. Myanmar	194		1992
SB. Estropia	1945 122.Namibia	199		1981
\$9 Fig.	1970 123. Naturu	199		1945
60. Feland	1955 : 124.1 repail	195		1977
61. France	1945 125. Netherlands	19		1947
62. Cubon	1965 126. Hen Zealand	19-		1945
63. Carries	1965 - 127, hicaraqua	19		1964
64. Ceorgia	1992 123.1.ger		60 192. Zimbabwe	1980

an international body whose purpose is to promote free trade by persuading countries to abolish import tariffs and other barriers. As such, it has become closely associated with

globalisation.

Based in Geneva, the WTO was set up in 1995, replacing another international organisation known as the General Agreement on Tariffs and Trade (GATT). The WTO has a much broader scope than GATT regulated trade in merchandise goods, the WTO also covers trade in services, such as telecommunications and banking and other issues such as intellectual property rights.

HQ: Centre William Rappard, 154 rue de Lausanne, CH-1211 Geneva 21, Switzerland. Website: http://www.wto.org Director General: Pascal Lamy (France)

World Intellectual Property Organisation (WIPO)

The Convention establishing WIPO was signed at Stockholm in 1967 by 51 countries and came into force in April 1970. In Dec 1974 WIPO became a specialised agency of the UN.

HQ: 34, Chemin des Colombettes, 1211 Geneva 20, Switzerland.

Website:http://www.wipo.int

International Fund for Agricultura
Development (IFAD)

Director-General: Dr. Kamil Idris (The Sudan)

The agency began its operations in Dec 1977.

HQ: 107 Via del Serafico, Rome 00142 Italy. Website:http://www.ifad.org President: Lennart Bage (Sweden).

Reforming the UN

or a human institution with universal reach

T.P.Sreenivasar

Formerly India's Ambassador & Dy. Permanent Representative to UN

in a changing world, the United Nations has remained surprisingly unchanged in form for sixty years and its charter has remained largely unaltered. The complex procedure for amending the charter has deterred frequent changes and its proven resilience in the face of grave challenges has enabled the UN to meet the needs of the vastly expanded membership and the greatly transformed agenda without fundamental change. The resolutions, declarations and treaties, adopted over the years, have enriched international law. Many important intergovernmental and secretariat bodies have been created under the principal organs of the

UN. As a result, the UN has remained dynamic credible and modern. But the quest for reform continues, if only to get the organization to acknowledge the evolution in international law and

to reflect the realities of the world situation.

The reform effort, which began soon after the UN Charter came into force, can be broadly grouped into two clusters; the first relating the structural reforms to accommodate the physical changes in the world, like the exponential increase in the number of members and the changes in the political map of the world and the second relating to the functioning of the

various organs of the UN. But restructuring i

terms of amendments to the Charter has no

gone beyond the barest minimum. So far, only three amendments have been made to the Charter, In 1965, the UN Security Council was expanded from 11 to 15. In 1965, the Economic and Social Council (ECOSOC) was exbanded from eighteen to twenty-seven. The ECOSOC was again expanded from 27 to 54 in 1973. Elementary things like changing the names of the permanent members from the Republic of China to the People's Republic of China and the Union of Soviet Socialist Republics to the Russian Federation have not been done yet and the charter still has the "enemy clause" to characterize the losers of the second world war, who are now highly respected members of the organization. In a way, it is a tribute to the framers of the charter that the UN has not collapsed under the weight of the monu-

mental changes in the world since 1945.

Democracy Deficit

The "democracy deficit" of the UN, which has been consciously embedded in the UN charter, has been the most controversial element. In an organization which proclaims sovereign equality among its members, some are "more equal" than others. One nation one vote principle applies only to the General Assembly. The Security Council, the repository of the power to make war and peace, has remained in the grip of the veto- wielding permanent members, without whose support, no decisions can be taken. A further dimension was added to the powers of the permanent members when it came to be recognized that even an abstention by a permanent member is sufficient to take decisions. Once the agreement among the permanent members, with abstention from China, became a possibility after the cold war, it became clear that issues of fundamental importance to the developing world would be willed by the developed world. The demand

Is the expansion of the Security Council as-

1-Tred importance in this context

India had initiated a move in 1979 to expand the non-permanent membership of the Security Council on the basis that the ratio between the general membership and the Security Council members should be preserved at 1945 level. Although the proposal had the support of a majority of the member states, no vote was taken on it as the permanent members made it clear that they would not support it. But after the cold war, some of the permanent members themselves favoured the induction of Japan and Germany as permanent members. When the pressure mounted for including developing countries from Asia, Africa and Latin America as permanent members, the idea of an expansion was virtually abandoned.

High Level Panel

The reform of the Security Council, together with other ideas of reform, surfaced again when the Secretary General constituted a High Level Panel in 2004 to examine the whole gamut of issues arising from terrorism and other threats to international peace and security. The panel was unable to make a single recommendation on the expansion of the Security Council, Instead, it made two recommendations, which was like making no recommendation at all. As the first option, it suggested an addition of six new permanent members, two each from Africa and Asia and one each from Europe and Americas and three non-permanent members. In the secand option, it proposed no additional permanent seats, but eight seats with four-year renewable terms, a kind of a rotational system of semipermanent members. Under this option, if ere will also be one additional non-purmarkett seat.

The Secretary General modified some of the Panel's recommendations when he put them forward to the General Assembly in a report, entitled "In Larger Freedom", but presented but the alternatives for reform of the Secretary Council to the sixtleth anniversary UN summent, he stressed that the summent should choose one of

the two options or devise a third method by which the Council could be reformed to bring it closer to the realities of the political situation. He suggested a decision by consensus, but added that reform should go forward by voting, if necessary. The reform package presented by the Secretary General did not make much headway and there was no question of a consensus on the expansion of the Security Council. The permanent members, particularly the United States, did not want an expansion of the Council to the extent suggested.

In an ill-advised move, four of the candidates, India, Brazil, Germany and Japan (G-4) presented a resolution on expansion on the basis of the first alternative of the Panel report in the expectation that it would receive a two third majority in the General Assembly. The plan was to present a fait accompli to the permanent members to force them to ratify the changes. UK and France supported the move, but the US, Russia and China opposed it in different degrees and ensured that the resolution was not even put to a vote. The African group refused to support the G-4 resolution on the ground that the resolution did not seek veto for the new permanent members, lapan also dissociated from the G-4 approach when it realized that it had a better chance of becoming a permanent member on its own rather than in the company of G-4. In actual fact, the Africans were not able to agree on two candidates from Africa. Moreover, they succumbed to the pressure from the US not to join the G-4 exercise. The US position is that a limited expansion is possible, but the immediate priority is to bring in financial and management reform and not reform of the Security Council. Most of the developing countries, however, are not ready to bring in the kind of reform that the US has presented. The expansion proposal has once again receded into the background.

The discussion on the functioning of the Security Council in a Working Group since 1992 has brought about some marginal im-

provements in the accountability of the Council to the General Assembly. Methods were devised, without any changes in the charter or the Rules of Procedure, to share information with the general membership of the UN. The number of open meetings were increased to seek the views of the non-members of the Security Council. Troop contributors were brought into a consultation mechanism so that the Council could take informed decisions on peacekeeping operations. The Presidents of the Council began briefing the general membership on the Council's activities. These were not changes in substance as the briefings did not cover the discussions in the Council's informal consultations and they did not reveal anything that was not known to the membership. But the acknowledgement of the accountability of the Council to the General Assembly itself was a major advance.

Agenda for Peace

Soon after the end of the cold war, the Secretary General, Boutros Ghali, put forward a set of proposals for reform in his "An Agenda for Peace" in 1992. It was essentially a codification of the changes that had taken place over the years. But some of the elements in his proposals, such as dilution of sovereignty, setting up of a standing force for the UN and strengthening of the post of the Secretary General himself proved contentious and only marginal reform in peacekeeping operations was accomplished. His proposals in "An Agenda for Development" were even less successful as the developed countries were not willing to take on additional financial responsibilities.

The reform proposals advanced by the Secretary General in 2005 went beyond the Security Council. These included reform of the General Assembly itself in terms of rationalizing its work and agenda, replacement of the Human Rights Commission by a smaller Human Rights Council with greater authority, setting up of a Peacebuilding Commission and man-

agement reforms to give greater leeway to the Secretary General in matters relating to the budget. The reforms accomplished so far are the setting up of the Peacebuilding Commission and the Human Rights Council. Even these did not go far enough to change the present situation. The management reform was also rejected by the General Assembly. Some cosmetic changes were made, but they did not meet the demands of countries like United humans to bring about overall reform. Even the proposal to remove anachronistic references to

the UN budget subject to satisfactory reform and, in the absence of US certification of reform, a budgetary crisis looms large.

It is universally recognized that the UN needs drastic reform to reflect the changes of the last 60 years. But the diverse interests in the UN are

the "enemy States", Military Staff Committee

and the Trusteeship Council were not accepted.

The United States had made the approval of

concerned that the changes will result in alter ing the balance of rights and obligations of member states, obtained in 1945. Motorcot, the organization has adjusted itself to charge ing realities without fundamental changes in the charter, New prombes have been established lished within the broad parameters of the close ter because of inventive interpretations of the charter, Issues like terrorism, cristion field and human rights have come to the forefront even though they are not mentioned wither horize The Security Council terrosics arrayed science up, but there is no formula ad an can come and the acceptance of the two thirds magnify in duding the five permanent mercury is a win all its inadequacies, the late's performing in-

indispensable role and the general condition

is that no reform may be perform to unitable.

form. Anach ron sens and natural duning which is

the charter, but many referre, it is feet, may

throw techny out who technical

Secretary-General: Ong Keng Yong (Singapore)

Caribbean Community and Common Market (CARICOM)

Established in 1973.

HQ: Bank of Guyana Building, PO Box 10827, Georgetown (Guyana).

Website:http://www.caricom.org Secretary-General: Edwin W. Carrington (Trinidad and Tobago)

Commonwealth of Independent States

Commonwealth of Independent States (CIS), created Dec. 1991 upon the disbanding of the Soviet Union. It is made up of 12 of the 15 former Soviet constituent republics. Members in 1995 were Armenia, Azerbaijan, Belarus, Georgia, Kazakhstan, Kyrgyzstan, Moldova, Russia, Tajikistan, Turkmenistan, Ukraine, and Uzbekistan. The capital of the commonwealth is Minsk, Belarus.

HQ: 220000 Minsk, Kirava 17, Belarus Website:http://www.cis.minsk.by Executive Secretary: Yurii Yarov.

The Commonwealth is an organisation of nations and dependencies that were once part of the former British empire. There are 54 members. The British monarch is the symbolic head of the Commonwealth.

Commonwealth Heads of Government Meet

Formerly known as the British Commonwealth of Nations, the Commonwealth is a loose associaton of former British colonies, dependencies and other territories - and Mozambique, which has no historical ties to Britain.

The Commonwealth has no constitution or charter, but the heads of government of its member states hold Commonwealth Heads of Government Meetings (CHOGM) every two year to discuss issues of common interest.

Founded: 1931

Members: 53 states

HQ (Secretariat): Marlborough House, Pall Mall, London. SW1Y 5HX,UK.

Website: http://www.thecommonwealth.org

Secretary-General: Donald C McKinnon (New Zealand).

European Union Known as the European Community

European Union was known as the European Community (EC) until 1994. The name covers 3 organisations with common membership: the European Economic Community (Common Market), European Coal and Steel Community, and European Atomic Energic Community (Euratom), The European Union covers a large part of the continent of Europe. In 2004, its membership increased from 15 to 25. The ten new countries which joined the EU in 2004 are: Cyprus, the Czech Republic, Estonia, Hungary, Latvia, Lithuania, Malta, Poland, Slovakia and Slovenia. When two more countries join in 2007, the EU will have a population of nearly half a billion.

HQ: 200 rue de la Loi/Wetstraat, B-1049 Brussels, Belgium

President, European Commission: Romano Prodi (Italy).

Website:http://www.europa.eu.int Sec. Gen.: David O'Sullivan (Ireland)

European Economic Area

European Economic Area (EEA) came into existence from Jan. 1, 1994 as a preliminary step of a proposed merger of EFTA and EC over the coming decade.

European Space Research Organisation

European Space Research Organisation (ESRO) was formally established in 1964 to promote collaboration among European States in space research and technology exclusively for peaceful purposes. The members are Belgium, Denmark, France,

Spain, Sweden, Switzerland and UK. Austria, Ireland and Norway participate as observers.

HO: Paris.

West Germany, Italy, the Netherlands,

French Community

French Community offers to the French over-

seas territories, which manifest their will to adhere to it, new institutions based on the common idea of liberty, equality and fraternity and conceived with a view to their demo-

Chad, Madagascar, & Djibouti.

Independent members of the Community are: French Republic, Central African Republic, Republic of Congo, Gabon, Senegal,

Group of Eight With no headquarters, budget or permanent

Russia.

cratic evolution.

staff, the Group of Eight is an informal but exclusive body whose members set out to tackle global challenges through discussion and action. The G8 comprises seven of the world's leading industrialised nations, and

Founded: 1975, Rambouillet, France
 Original Members: France, Germany, Italy, Japan, UK, US.
 Later Members: Canada (joined at 1976)

•Later Members: Canada (joined at 1976 summit, San Juan, Puerto Rico), Russia (joined at 1998 summit, Birmingham, UK)

Gulf Co-operation Council (GCC) The Gulf Co-operation council, or GCC, is

a loose political and economic alliance made up of six Gulf states. It aims to boost economic cooperation between members and, through collective security, to guard against any threat from neighbouring states and from islamic terrorism.

The GCC was formed in May 1981 against the backdrop of the Islamic revolution in Iran and the Iraq-Iran war. Its members - Saudi

Arabia, Kuwait, the United Arab Emirates,

Oman, Qatar and Bahrain - share similar no-

litical systems and a common social and cultural outlook. They are autocratic monarchies or sheikhdoms, with limited or non-existent political participation.

HQ: Riyad (Saudi Arabia).

Sec. Gen: Abdul-Rahman Al-Atiyyah

The International Air Transport Association

The International Air Transport Association (IATA) was founded in 1945 to promote safe, regular and economical air transport and to

regular and economical air transport and to provide a forum for collaboration. Members are international and domestic airlines. Main offices: IATA Centre, Route de l'Aeroport 33, PO Box 416,CH-1215 Geneva,

Switzerland; 800 Place Victoria, PO Box 113, Montreal, Quebec, Canada H4Z 1M1; 77 Robinson Road, #05-00 SIA Building, Singapore 068896. Website:http://www.iata.org

INTERPOL

Interpol is the world's largest international police organisation, with 184 member countries. Created in 1923, it facilitates cross-border po-

Director-General: Giovanni Bisignani

crime. HQ: Quai Charles de Gaulle, 69006 Lyon,

lice co-operation, and supports and assists all

orga-nisations, authorities and services whose

mission is to prevent or combat international

HQ: Quai Charles de Gaulle, 69006 Lyon France. Website: http://www.interpol.int

Secretary-General: Ronald K. Noble

North Atlantic Treaty Organisation

North Atlantic Treaty Organisation (NATO)
In 1949, the foreign ministers of Belgium,

France, Luxembourg, the Netherlands, UK, Canada, Denmark, Iceland, Italy, Norway, Portugal and USA met in Washington and signed the North Atlantic Treaty. Greece and Turkey (1952), the Federal Republic of Germany (1955) Spain (1982).

The Czech Republic, Hungary and Poland

Non-Aligned Movement Comoros, Djibouti, Egypt, Iraq, Jordan, Kuwait, Lebanon, Libya, Mauritania, Morocco, The Non-Aligned Movement (NAM) is made

Oman, Palestine L.O., Qatar, Saudi Arabia, Somalia, Sudan, Syria, Tunisia, UAE, and Republic of Yemen.

HQ: Al Tahrir Square, Cairo, Egypt. The Secretariat has its seat in Cairo. Secretary General: Amre Moussa (Egypt).

Organisation of Petroleum Exporting Countries

Organisation of Petroleum Exporting Countries (OPEC) created in Sept., 1960, OPEC attempts to set world oil prices by control-

ling oil production. It also pursues members' interests in trade and development dealings

with industrialised oil-consuming nations.

Members (1998): Algeria, Indonesia, Iran, Iraq, Kuwait, Libya, Nigeria, Qatar, Saudi

HQ: Obere Donaustrasse 93, A-1020 Vienna, Austria. Website:http://www.opec.org

Arabia, United Arab Emirates and Venezuela.

Secretary-General: Ahmad Fahad Al-Ahmad Al Sabah (Kuwait)

up of 114 developing countries and aims to represent the political, economic and cultural interests of the developing world. The principles of non-alignment were defined in the Bandung (Indonesia) Declaration of 1955 and reiterated in the Brioni (Yugoslavia) Declaration of 1956 by Jawaharlal Nehru, Josip Broz Tito, and Gamel Abdil Nasser. The first Nonaligned Conference was held at Belgrade in 1961 in which 25 countries participated. The basic thrust of the movement is in favour of

South Asian Association for Regional

laysia).

Co-operation South Asian Association for Regional Co-op-

peace, disarmament, development, indepen-

dence, eradication of poverty and illiteracy.

Chairman: Abdullah Ahmad Badawi (Ma-

eration (SAARC), comprises India, Maldives, Pakistan, Bangladesh, Sri Lanka, Bhutan and Nepal It was launched following the Dacca Summit in early December 1985

South East Asian Na-

way, Poland, Portugal, Ro-The Association of Greece, Hungary Freiand

Members of ASEAN, EU, NATO & OPEC

Italy, Latvia, Lithuana 2003

embourg, Malta Poland

Portugal, Slevakia Novema

Spain, Sweden The Names

North Atlance Treaty

Viernzer Courtmen Da

(OTAX) nodesinepro

lands, United Chadem

tions (ASEAN) Member Countries (10) Brunei Darussalam, Cam-

bodia, Indonesia, Laos, Malaysia, Myanmar, Philippines, Singapore, Thailand, Vietnam.

European Union (EU)

Member Countries (25): Austria, Belgium

land, France, Germany

Cyprus, Czech Republic Denmark, Estonia, Fratonia, Force Demana ವಿಜ್ಞಾನ ಸಭಾಯಗಳ ಅಕ್ಷಕಾದ್ಯ

to lut i littligtig lig-ಕಾರ್ಯದ ಸಿಕ್ಕಾರ್ಕಾರ್ ಸಿರ್ಡ

Belgium, Bulduru, Corada Cher Reservation Democratic Ex-

Member Curry 713): Iran, raq 🛶 Salai Araba (Albaha

tries (0?EC)

Quan name -

Linear est and Ida _____

mania, Slovakia, Slovenia,

Spain, Turkey, United King-

Organisation of Part-

leum Exporting Cour-

dom, United States.

HQ: POBOX:4222, Kathmandu, Nepal. Secretary-General: Chenkyab Doril

(Bhutan)

Non-governmental Organi sations Amnesty International

A world-wide human rights organisation, established on May 28, 1961 with a newspaper appeal by the British lawyer Peter Berenson, Now it has more than 11,00,000 members in more than 150 countries with 6000 local groups in 70 countries in Africa. the Americas, Asia, Europe and the Middle

East, it won the Mobel Prize for Peace in 1977. International Secretariating-119 Rosebery Avenue, London, LCTR 3RE, UK

Website: http://www.amnesty.org Secretary General: Ms. Irene Zubaida Khan

Red Cross

International Society for relief of suffering in time of war or disaster, International Committee of Red Cross was founded (1863) on advocacy of LH, Donant (1828-1910), Delegates from 14 countries adopted Geneva Convention (1864), providing for neutrality of personnel treating wounded etc. Over 100 national Red Cross sotieties now exist. Awarded Nobel Peace Prize (1917, 1944, 1963),

HQ: 19 avenue de la Paix, CH-1202 Geneva, Switzerland

Website:http://www.lcrc.org Presidentijakob Kellenberger

Scouts and Guides

Scouting is a worldwide organised movement for young people started by an Englishman, Lleutenant General Sir Robert S.S. Baden-Powell (1857-1941) in 1907. He gave boys out-door skills which he had illustrated well in his book explaining scouting, tracking and map-making skills. The movement's goals include encouraging good character, loyalty to God and country, service to other people and physical and mental fitness, "Be Prepared" Is the slogan. The movement had about 13 million members in 115 nations in 1982. The World Scouts Bureau is in Geneva. Switzedand.

A similar movement for alds - the Girl Guide Movement - was founded by Baden-Powell and his sister Agnes in 1910.

The World Council of Churches

The World Council of Churches (WCC) was formally constituted on 23rd Aug. 1948, at Amsterdam, by an assembly representing 147 Churches from 44 countries. By 1989 the member Churches numbered over 330, from more than 100 countries.

HQ: PO Box 2100, 150 route de Ferney, 1211 Geneva 2, Switzerland,

Website:http://www.wcc-coe.org

General Secretary: Rev. Dr. Samuel Kobla (Germany).

enotetterritte (UM)

religions evolved as a set of beliefs concerning the cause, nature and purpose of the universe and grew as an

organised system of beliefs that bound people to become a close-knit society.

Religion	W	orid Population	rici encogoriso		103,100,100
			Sikhs		24,295,200
Christians		2,069,883,000	lews		14,551,000
Roman Catholics		1,092,853,000	Spiritists		12,732,600
Protestants		364,530,000	Baha'is		7,503,000
Orthodox		217,030,000	Confucians		6,425,300
Anglicans		79,988,000	Jains		4,413,700
Muslims		1,254,222,000	Shintoists		2,680,300
Hindus		837,262,000	Zoroastrians		2,733,900
Chinese folk relig	ionis ts	398,106,300	Other religionis	ts.	1,118,000
Buddhists		372,974,000	Non-religious		784,269,000
Ethnic religionists		238,096,000	Atheists		148,660,000
٤	गाप्त	ग्रागु <u>स</u> ्स	Secretaria de la calcada de la calcada de Assaria de As	POR AREA SELVEN	3
		of languages in the	Javanese	75	75 Jana (Indonésia)
		f them have few with the major	Telugu	69	69 Andhra (Indu)
		s predict that be-	Marathu	68	68 Maharashtra (India)
		ent of the world's	Vietnamese	67	Vietram
		extinct this cen-	Korean	67	North & South Korea, China, Japan
tury. Language	s need	at least 100,000	Tam.i	66	Tamunadu (Iraia),
speakers to surv	ive.		191171	60	Sn Lanka, Malaysia
			French	0-4	France, Belgium,
Major Langua	ages		neral	U 1	Canada, Switzerland
			ltalian	61	lta'y
	eakers Aillion)	• Principal Areas	Punjabi, Western	60	Pakstan
			Urdu	60	India, Pakistan
Chinese, Mandarin	873	China, Tanvan	Chinese, Yue	54	China
Spanish Foreign	322	Spain, Latin America	Turksh	50	Turkey
English		K,USA,Canada,Ireland, untralia, New Zealand	Arabic, Egyptan	40	fyrt
Hateli	180	North India	Chinese, Min Nan	46	Chara
Portuguese	177	Portugal, Brazil	Cuprati	40	Gujarat (Imala)
Bengul	171	India, Bangladesh	Chinese, Jinini	45	Cina
Russian	145	Russa, The CIS	Poush	42	1.44 =
Japanese	122	negel (metal)	Livanan		Usrane, Randa
Compat standard	95	Comuny, Austra,	Chinese Yung	36	
* ************************************		Switterland	المعاد وباعالة	35	the same of the same
Charles, Viu	77	Chura) Larvada	35	at Same
•		_			man " P

New-Religionists

World Population

Religion

105,106,100

jectives of advancing trade and development and maintaining the stability of the international monetary system, though it has been shaken by a series of crises over the last three decades; but the dramatic shifts in the economic power of nations, especially of Asia, and the paramount importance of ending global poverty, hunger and disease calls for new mechanisms which are more responsive to the needs and urges of the vast majority of mankind. The United Nations system, itself in the process of some reform and revitalization, has called for an overhauling of the international economic institutions and policies which are no longer as relevant as they may have been in the past.

Trends in trade and capital flows are reviewed briefly in the following paragraphs. What is of great concern is that despite robust growth of the world economy, driven by not only USA but also China, India and other dynamic economies in Asia, there is no visible impact on narrowing of rich-poor income disparities while even in fast-growing major developing countries, the rural-urban divide has been widening. Also, the output expansion of recent years has not been accompanied by employment generation matching the rise in the adult work force. The number of unemployed had risen to 192 million in 2005, half of them young men and women, a situation which could potentially have serious social and economic consequences.

Challenge of Poverty

Global poverty remains the biggest social challenge. Some 1.2 billion people are living on less than a dollar a day in the international measurement of poverty - and more than two maken people on less than two dollars a day. Though poverty reduction became a central objective of development for over two or three decades, the recorded progress so far falls short of expectations, partly due to ineffective or mismanaged implementation of

schemes to benefit the poor. There have been impressive gains in a few emerging economies in East Asia, notably China and moderate progress in South Asia - home of half of world's poor - but there is virtual stagnation in sub-Saharan Africa.

The Millennium Development Goals on social development including reduction of poverty by one-half by 2015, adopted by the international community at a UN Summit in 2000, may not be fully achieved, even in India. These goals, apart from poverty reduction, included alleviation of hunger and malnutrition, achieving universal literacy, decline in infant and maternal mortality rates, gender equality in school enrolment and empowering women, and ensuring environmental sustainability. Global monitoring of these goals shows that some of the rapidly growing economies could reduce poverty by half but most would fail on other social targets. barring Sub-Saharan Africa, which is unlikely to meet any of the goals

Troubled Transition

The twenty-first century opened on a troubled note, terrorism posing the greatest threat to a world since the end of the Second World War sixty years ago, and nation-states are encountering new challenges, both geopolitical and economic, not foreseen in the latter part of the 20th century. The Millennium has not ushered in an era of relative peace and harmonious development for the peoples of the world, especially for the twothirds of them in the developing world. To insurgent violence, local conflicts, ethnic cleansing and state tyranny has been added terrorism in various manifestations on a global scale. All these are impacting on the normal life of peace-losing peoples all over the world in as much as these cutranes in siderable damage to human ductive assets entail communities and C

case of developing countries, slow down the wheels of progress.

On the economic and social side, with which this review of Global Economy is concerned, recent years have seen the explosive surge in the price of oil, which lubricates the global economy, hurting more seriously economies of oil-importing developing countries. The resulting significant rises in domestic costs and spiralling of consumer prices lead in turn to firming up of interest rates which could dampen growth. Also, the heavier import bills cause a drain on the foreign exchange reserves of these countries. Secondly, global imbalances, though relatable to a small group of countries (USA with a huge current account deficit matched by large trade and capital account surpluses of oil-exporters and a few emerging economies, mainly Asian, are raising fears of a sudden unwinding leading to exchange rate volatility and financial market destabilization with potentially negative impact on growth and development of other developing economies. Thirdly, the spread of

globalisation relying on market forces has, far from creating new growth opportunities for the developing countries, not only accentuated the rich-poor divide but also failed to lower levels of unemployment even if jobs are generated in a few high-tech sectors for skilled professionals. Votaries of globalisation, however, keep urging countries to undertake structural reforms to reap the gains and avoid the risks inherent in the free play of market forces.

Structural Changes

The world economy has been undergoing transformation gradually over the fast century and the twenty-first century has already ushered in the Information Technology and a Communications Revolution which would have a great impact on the operation of the economic system. Structural changes are under way as there is growing rivalry for global

competitiveness, as reflected in not only the outsourcing of business services in the IT sector but also location of manufactures in countries providing low-cost labour and natural resources. Production processes in the global economy are thus getting more integrated.

These may be contributing to global productivity and supply of labour, skilled and low-skilled, and should normally help keep prices of products lower. Multinational firms from both developed and developing countries have been acquiring business abroad through mergers and acquisitions, which now make up the larger part of foreign direct investment flows. But not all developed nations which have for long embraced capitalism observe the rules of economic liberalism that globalisation implies. Many leading countries in Europe and North America are seeking to restrict foreign investments in certain sectors or prevent take-over bids, without allowing choices to economic players. "Strategic concerns" and security considerations are cited for such restrictive policies which are complemented by trade protectionism undermining free flow of goods and services within the rules and disciplines of the multilateral trading system (WTO).

Doha Round

Global trade in goods and services can undergo radical changes if the Doha Development Round of multilateral trade negotiations can be successfully concluded. In mid-2006, even after five years of its launching, the Doha Round had made no substantive progress on the key issues of trade in agriculture (reduction of domestic support for farmers, phasing out of export subsidies and greater market access all involving commitments by the richer nations, especially USA and EU) or lowering of tanffs on manufactured goods. According to the extended time tables, the negotiations were to be concluded by the end of 2006.

The Round also covers Services in which many developing countries have become competitive and seek wider markets for provision of their services including temporary movement of personnel and other trade-related issues. For the developing countries, maximum gains would come from rich countries lowering the barriers, especially for their agricultural products, and for manufactures such as textiles and garments and leather goods which they specialize. But the Round has also to ensure the development dimension in any final deal. In the event of failure of the Round, there would be danger of retreat to protectionism and greater recourse to regional and bilateral trade deals between unequal partners and further weakening of the rule-based world trading order represented by the 150-nation World Trade Organisation.

Population and Food

The world population was estimated at 6.4 billion in 2005 and the long-term projections show that by 2050, there would be 8 to 9 billion people, roughly a fifty per cent increase. Bulk of the increase in numbers would be in developing countries where the growth rates of population although declining are still higher than in the developed world. In fact, there is a declining trend in some of the industrial countries, mainly in Europe including Russia. China and India alone have more han 40 per cent of the global population.

Unchecked rise in the numbers of human leings can only aggravate problems of povity and meeting basic needs like food and vater. The world is still far from realizing food ecurity for billions of poor and many countes face severe shortage of drinking water.

There is the looming energy crisis with of speed likely to remain at unsustainable levels for mars to come and there is a desperate hunt for sow discoveries of oil gas as well as for cleaner lieds specially renewable sources of energy.

In the industrial countries, population ag ing has become the most important economic challenge as over the next 50 years there would be rapid growth of elderly per sons to be looked after by the State with dramatic reductions in the worker-dependency ratio. International migration, with an estimated 200 million people living away from their homes, roughly half of them in the developed countries, is also posing problems of management for host countries though migrants, subjected to discrimination, are absorbed to a certain extent in lower-level occupations. Also, both the industrial and developing countries face immense challenges in renovating/expanding their infrastructure to cope, with an expanding world economy involving investments in tallions of dollars.

Growth & Risks

Global economy grew at 3.6 per cent in 2005 propelled by both USA, maintaining a 3.5 per cent rise, and fast-growing emerging market economies, principally China (9.9 per cent) and, to a lesser extent, India (8.4 per cent) while trade volume expanded by over 7 per cent, mainly due to continuing export momentum of developing countries. Growth in trade has been outpacing GDP growth for over a decade now. The global environment has been highly favourable in recent years for non-inflationary growth driven by robust demand, corporate investments, increased productivity and record trade and capital flows. For two years, the world has grappled with the all price surge, rising from 25 dallars a barrel in 2000 to 65 dollars on average in 2005, without impeding growth. But the high oil prices, which touched 75 dellars in April and again in July 2006, have begun to hit consumers in both advanced and developing countries.

The IMF reported in April that the for 2006 looked even better on the

٤.

of higher growth estimates for China, India and Russia, the well-established recovery in Japan (after a decade of recession and deflation) and the emerging signs of recovery in the European Union. The recent economic reforms in China have resulted in a higher GDP in 2004 and with a nearly 10 per cent growth in 2005, China has become the fourth largest economy after USA, Japan and Germany.

A rosy picture of global growth for 2006 and 2007 has been projected though both the IMF and the World Bank have warned of the possibility of downside risks, which could be warded off in 2005, having to be encountered. These relate to an upsurge in inflation from the elevated oil prices and from a possible sudden unwinding of global financial imbalances (with growing US current account deficit of over 800 billion dollars in 2005 and rising trade surpluses and reserves of Asian emerging economies. Global growth at 3.7 and 3.5 per cent in 2006 and 2007 respectively has been projected by the World Bank.

Growth in major economies in 2006 and 2007 is estimated at 3.4 and 3.3 per cent for USA (which recorded a 5.6 per cent rise in the first quarter, rebounding from the sluggish last quarter of 2005), 2.8 and 2.1 per cent (Japan) and 2.0 and 1.9 per cent (EU). Developing countries are expected to grow by 7 per cent in 2006 but growth would be faster at above 8 per cent in East Asia for the two years (China 9.5 and 9 per cent). India's growth, which was above expectation at 8.4 per cent in 2005/06 could have a slowdown to a little over 7 per cent for these two years, according to IMF.

Yet, uncertainties were beginning to build up by mid-2006 as consumer price inflation rates in developed economies, which had remained at historically low levels (1 to 2 per cent) tended to move up, and the monetary measures were tightening in both USA and European Union. On June 29, US Federal Re-

serve raised the short-term rate to 5.25 per cent, the 17th consecutive increase, while the European Central Bank posted it at 2.75 per cent and both central banks had not ruled out further increases during the year depending on incoming data on inflation and output trends. For developed countries as a whole, CPI was above 3 per cent in May 2006, mainly due to energy prices. Global growth also tends to exert pressure on energy and raw materials markets and on prices. The other issue of major concern already referred to is the global imbalances which are likely to be even higher in 2006, in the 800-900 billion dollar range.

Meltdown in Markets

Unexpectedly, the world stock markets were thrown in turmoil for over four weeks in May-June, as investors reportedly perceived growing risks of inflation and interest rate revisions and adverse impact on growth from heightening geopolitical tensions and this triggered a wave of sell-offs. The mature markets adjusted themselves without much disruption as consumer and business confidence was unshaken but some of the emerging markets like India and Brazil saw more prolonged downturn with the largest falls in market values.

By early July, the Bombay Stock Market had substantially recovered and the sensitive index (Sensex) was well past the 10,000 mark, the high point to which it had raced in the earlier months. The IMF viewed the developments in mature markets as sharp correction of risky assets at the end of a prolonged period of accommodative monetary policy and highly liquid conditions in financial markets that had prompted a global "search for yield". It did not see it as a signal of an impending downturn. For the Indian market, which witnessed large outflows from the foreign portfolio investments, the recovery was relatively slow but by early July the market was ruling

well above its new five-digit benchmark with a balancing of ups and downs.

Global Imbalances:

First, the structural imbalance of the world economy: According to IMF classification, about thirty advanced nations led by USA, EU and Japan had a share of 52.3 per cent of global output of goods and services in 2005 while developing countries (including emerging market economies) accounted for 47.7 per cent. The largest economy, USA, had a share of 20 per cent of global output, followed by EU (14.8 per cent) and Japan 6.4 per cent. Among the developing countries, China accounted for 6.7 per cent of world output, a little higher than Japan's. It also had the highest share in output among developing countries with 15.4 per cent (India 5.9 per cent). In world exports, the share of developed nations was 68.9 per cent while developing countries accounted for around 31 per cent.

cent and India's, 1.3 per cent. The problem of global imbalances has its

China's share of world exports was 6.7 per

origin in the high current account deficit of the United States over the years, reflecting mainly its large trade deficit with many trading nations, especially China with which it had a bilateral deficit of 200 billion dollars in 2005. Running twin deficits, budget and current, USA had moved from the position of a net creditor in the world to a net debtor. So long as American consumer demand for cheaper imported good holds, trade deficits would keep growing. In 2005, US current deficit was above 800 billion dollars or 6.5 per cent of its GDP and analysts expected it to further rise in 2006 and later years unless the problem was tackled on a global dimension. The rise in international prices of oil has further worsened the deficits, with USA being a leading oil importer. But in the case of the two key

developing economies China and India

with rising energy demand, China has been

able to absorb the oil trade deficit in its surpluses from higher exports while India's current surplus has turned a deficit. The increase in US deficit is matched by

the growth in current account surpluses of

oil exporters and that of emerging Asia econo-

mies including China. USA is able easily to

finance the deficit because both oil-exporters, who have earned an extra 400 billion dollars from the higher prices of exports, and China, besides Japan, along with a few other Asian emerging economies running large trade surpluses and accumulating reserves are investing in US treasury securities. The US Government's efforts to get China to revalue its currency to reduce bilateral trade deficit to some extent did not meet with the desired response. China, however, de-linked its currency, yuan, from the dollar peg and allowed it to fluctuate within a narrow margin as determined by market forces in July 2005. Yuan's appreciation till mid-2006 was a mere 3 per cent against the 10-20 per cent revaluation US business and economists were demanding. China's stand was for achieving greater exchange rate flexibility on a gradual basis without disrupting its domestic economy.

Developing countries as a whole have for some years been having a surplus in current account (which relates to the net outcome of two-way trade, tourism, transport, investment income and outgoes, and miscellaneous receipts including remittances). Not many years ago, they were running sizeable current account deficits. Individually, there we fewer developing countries having current xcount deficits due mainly to the export over of countries like China, Korea, Mary and oil-exporting countries. They were the current account deficits -3.70 of low-income count In 2005, devel

ing market econ

a combined current surplus of 423 billion dollars as against the current account deficit of developed countries at 510 billion dollars. Here again, many industrial countries have a surplus but USA's deficit of 805 billion in 2005 has turned the current account of developed countries combined negative. The surpluses of developing countries and the deficits of developed countries, on a combined basis, will grow over the next two years. The surpluses have helped many developing nations to accumulate larger reserves of foreign exchange and they had 2.396 billion dollars of reserves at the end of 2005. China had the largest at 824 billion dollars, among developing countries, and by the first half of 2006 the figure had crossed one trillion (1,000 billion) dollars. India's reserves grew slowly to 136 billion, with some repayments, but by mid-2006 it had risen to 162 billion dollars. Reserve losses were recorded in many developed countries.

Against the background of these imbalances in trade and payments, and the unsustainable nature of the US current deficits which are set to worsen in 2006 and 2007, new efforts are being made under the auspices of the International Monetary Fund to secure a rebalancing of global growth, savings and investment. In the opinion of financial institutions and specialists, further accumulation of foreign liabilities by USA in order to finance its current deficits has potentially serious consequences for financial market stability, especially as, at some point, holders of dollar assets might lose their appetite for further investment in USA (which helps to finance the deficit) and this could bring down the dollar. This is easily said than done. For, the dollar, in which most of the global trade is denominated and reserves are held by most countries, enjoys the status of an international reserve currency. This also explains the benign neglect of US Government to the magnitude of the deficits thus far. But, such imbalances unchecked could also strengthen

the protectionist sentiment in USA where the Congress was planning to legislate for a punitive levy on imports from China, held mainly responsible for the large American trade deficits.

Treating the problem as a "shared responsibility", IMF's policy-setting Ministerial Committee authorized the Fund in April 2006 to pursue "multilateral consultations" with the concerned Governments to address the imbalances while maintaining robust global growth. In the first such consultation, China, Japan, EU, Saudi Arabia (all surplus countries) and USA (record deficits) had agreed to participate in efforts aimed at reducing the imbalances on a collective and consensual basis. Broadly, it had been suggested for some time that the US should cut its fiscal deficits and help stimulate private savings while surplus countries should have greater exchange rate flexibility and take measures to make their economies more domestic demand-based, reducing the present level of dependence on exports. There would thus be a rebalancing of global aggregate demand. The IMF hoped to conclude the first round of consultations before the end of 2006.

Trade and Commodities

The World Trade Organisation (WTO) has projected a 7 per cent growth in volume of global merchandise exports in 2006 as against the 6 per cent in 2005, but a later World Bank estimate puts the growth at 7 per cent in 2005 and 7.6 per cent in 2006. The latter estimate takes note of a resurgence in economic growth in the European Union which should increase domestic consumption and employment. The value of exports of merchandise in 2005 crossed the 10 trillion dollar mark (10,120 billion) and that of commercial services was 2.4 trillion, the growth in value being 13 per cent for goods and 11 per cent for services. The rise in the value of

global trade in part reflects the big rise in prices of metals and fuels. Strong export growth was recorded by countries in Africa, Middle East and Central Asia, helped by the rise in oil prices.

While exports and imports growth varied among developed nations, trade performance of developing countries including India continued to be strong. China's exports was 26 per cent while India's was also around 25 per cent in 2005-06. The share of the developing countries in world merchandise trade has been rising with China becoming the world's third largest exporter and importer after USA and Germany having a share of 7.3 per cent in exports and of 6.1 per cent in imports.

A large number of countries including developed nations are increasingly dependent on the vast Chinese market which has become a global manufacturing hub which imports inputs from the Asian region and reassembles for exports. Its growing low-cost exports include machinery, electronic products and textiles and clothing. China's two-way trade in 2005 crossed the 1.4 trillion dollar mark. In 2005-06, India's two way trade exceeded 250 billion dollars in goods and 135 billion in commercial services.

In 2004, developed economies' exports totalled 8,975 trillion dollars while those of developing countries were about three trillion dollars. Region-wise, developing Asia's exports were the largest at 2.3 trillion dollars. In 2004, China directed 59 per cent of its exports to developed economies, mainly to North America, EU and Japan, and 39.6 per cent to developing countries whereas India shipped a higher percentage of goods to other developing countries (50.2 per cent) and 47.8 per cent to developed economies Lie EU, USA and Japan, Manufactured exports accounted for 91 per cent of China's exports and 76 per cent of India's. US deficit in trade with China rose to 202 billion dollars in 2005.

Commodity price increases, especially metals and minerals, helped to boost export revenues of commodity exporters among developing countries.

With the sharp swing in commodity prices (oil, metals etc), many developing countries could get out of growth stagnation, such as in sub-Saharan Africa. But this cycle was not expected to last as non-fuel commodity prices were tending to moderate in 2006. Oil prices continued on an unrelenting uptrend due to rise in demand in China and India as well as in the USA coupled with volatility on fears of supply interruptions in producing countries caught in civil disorder or conflicts. World consumption of oil was 85 milion barrels a day in the first half of 2006. No significant fall in oil prices is considered likely over the medium term. The World Bank estimates the average price of crude to rise to 64.2 dollars in 2006 from 53 dollars in 2005.

Capital Flows

Capital flows to the developing countries, substantially private flows, have taken the center stage in meeting their financing needs since 1990s, especially in the wake of economic liberalization by many countries, and as official development assistance flows declined as a ratio of gross national income of the aid-extending richer nations. This rates was not even half of the UN target of - 6.7. per cent of GDP, set at the beginning of 1980s. Covernments and private sector pipe developing countries, especially estern ? market economies, depend on and was both for investment and trace (50%) needs. A large part of private fam. a count up of foreign direct and portrait in the date in channeled to several courants with the raised by corporates in management as markets or through community parties is from banks aproad. They edipsed chicul ican. trat cereicens atfrom bilateral creditors and multilateral financing institutions like the World Bank. Even the relatively low share of official aid and debt has been turning increasingly negative as developing countries service past official (bilateral and multilateral) loans and there has been no increase in official financing in real terms.

On the other hand, private capital flows (by way of bonds raised in international capital markets, syndicated commercial bank lending, investment flows, direct and portfolio, and short-term debt) have been on uptrend. In 2005, net private capital flows (net debt and equity) totalled 491 billion dollars, but on official account (receipts and outgoes), there was outflow of 71.4 billion dollars by way of debt servicing, thus leading to a transfer of resources from developing to developed countries. For many poorer countries, especially in sub-Saharan Africa. which cannot easily raise capital abroad, official development financing continues to be important as private flows go only to creditworthy and growing economies.

According to the World Bank's Global Development Finance 2006 Report, the larger private flows are driven by privatizations. mergers and acquisitions, external debt refinancing and strong investor interest in local currency bond markets in Asia and Latin America. The surge in private capital flows must also be seen in the context of a buoyant phase of world economic expansion and the robust 6.4 per cent growth of developing countries as a whole in 2005. Most of the private capital flows, however, go to a small number of middle-income countries and this is especially true of foreign direct investments which are attracted by fewer countries. China heads the list drawing 60 billion dollars a year as FDI.

In 2005, the net private capital flows of 491 billion dollars included equity flows of 299 billion dollars (FDI 237.5 and portfolio billion made up of bonds issued, bank loans and short-term debt. While official development assistance was higher at 106 billion dollars, a good part of the increase over the previous year was for debt relief for Iraq and Nigeria. Overall, for all developing countries taken together, net official flows were negligible and developing countries' debt servicing included 41 billion dollars to IMF and 31 billion dollars to others (bilateral).

Although most countries prefer, and are

trying to provide a conducive policy framework for FDI, these flows have for years been

61.4 billion) and private debt flows of 191.6

uneven as they go mostly to select countries and regions. Apart from China, the largest recipient of FDI, the share of South Asia as a whole, was only 8.4 billion (India over 5 billion dollar), less than sub-Saharan Africa's 17.6 billion dollars. Total, including debt flows to South Asia was 23.6 billion, one-twentieth of global private capital flows. China has lately begun to attract FDI in service sectors (banking) besides manufacturing. Total FDI in China was 562 billion dollars by early 2006, according to official Chinese data, as against the cumulative direct investment of 45 billion and portfolio investments of 55 billion in

India till December 2005 (RBI)

A large part of global FDI flows into developed nations was due to take-overs and mergers and acquisitions of firms, some of a large magnitude - like the 100 billion dollar merger of Shell and Royal Dutch (of UK and the Netherlands respectively). M and A also played a large part in FDI into China and India. Much less of FDI went for greenfield projects last year. It is also noticeable that many industrial countries are trying to tighten regulations to discourage foreign participation in areas perceived to be of strategic interest. China's state-owned oil corporation was thwarted from bidding for an American oil firm last year. There is risk that regulatory actions may sometimes exceed what is eeded to safeguard essential interests and e motivated by protectionist notions, acording to the Organisation of Economic Cooperation and Development (OECD - Paris).

The outlook for capital flows to developng countries in the current year and 2007 depend on the sustainability of current global expansion. The foreign investor appetite for emerging market assets could dissipate somewhat if home country interest rates go up. Given the soaring oil prices and the widening trade and payments imbalances among countries, there could be storms ahead, the World Bank warned in May and urged developing countries to put policies in place which would strengthen their capacity to weather external shocks. Central banks around the world were already seized of the emerging inflationary pressures from high energy prices which would necessitate further monetary tightening by raising the policy rates - a process well under way in the first half of 2006 both among advanced nations and emerging economies. Many developing countries, reeling unce the impact of high oil prices, have exhauster their surpluses and other cushions and rate become vulnerable to shocks.

South-South Flows:

Trade and investment cooperation has been expanding among developing sturties. South-South trade had more than doubled in a decade to a total of 562 million dollars in 2004 and at over 17 per tent growth per annum has been faster than south-north and north-south expensions rapid growth is linked to the place of 12th growth rates in several developing substantial reduction in termination and ing transport costs. Exercise, substantial reduction in termination and in termination of 1995, South-south francial register of 1995, South-south francial register of 1995.

also been spurred by the regional tradic agreements.

Though a small share of global private flows, south-south transfers have the potential to change the face of development finance, if developing country growth continues to outpace that in developed countries over the coming two decades, the World Bank said. Even here, FDI originates from firms in countries with higher incomes and is invested mostly within the same region. Also, FDI is intended to tap resources like energy in other countries and half of China's investments abroad has gone to natural resource projects in Latin America and Africa.

Remittances

Temmerces to developing countries in 2005 are extracted at 167 billion dollars to the Name Bank (173 billion according to bit enters, and these flows, says the Bark, are twe agrificant impact in reducing you en reciitating increase in hoose rold comp THEIR IT ECUCATION and health and puppers ng economic activity. At the same same, the Lank total that the higher process capital laive to developing countries has halter tur welling domestic reserved to the line note note countred of our reserve six क्षांत्रकृत्वस्थान्यं ति वद्यान्यं विकास व विवास elies by provide endines, in the time of the c द्यानगरस्य, यनद्वतः रस्टर्गान्यस्यक्तस्य स्ट्राह्मः स्ट्राह्मः course of leavings was associated Control, restrictation that it is assure

Tales a colored of talgraphic in the street of tales of t

justed capital flows. Private transfers (workers remittances) to India in 2005-06 were 25.22 billion dollars as against 21.27 billion in the previous year. Such remittances have been a significant factor in keeping the current account deficit to the minimum, the other being the earnings from software exports which had risen to 23.60 billion dollars in 2005-06 from 17.20 billion the previous year.

Employment

Global economy on robust expansion for four years now has failed to deliver new jobs for those entering the work force, and with some 192 million seeking work at the end of 2005, the unemployment rate stood at 6.3 per cent without much change while developing countries bore the brunt of the problem with profound economic and social consequences, the International Labour Organisation (ILO) said in a report in June 2006.

ILO has projected that by 2015, there would be an increase of 430 million in the world labour force, over 80 per cent of it in developing world, and this would need an annual job generation of more than 43 million over the coming decade to ensure that unemployment levels do not rise further. Under globalisation, employment intensity has declined and the dignity of work has been devalued, according to Dr. Juan Somavia, Director-General of ILO. The world

labour scene is characterized by high youth unemployment, gender discrimination, hazardous occupations, child labour and lack of social protection for millions in the informal sector. Continuous large-scale shifting out of agriculture and rural areas into urban centers pushed by poverty and pulled by the hope of decent employment was adding to the enormity of the problem.

At the same time, there are growing skills shortages in developing countries as they come to terms with the inroads of technology in an increasingly competitive global environment. Technological change is threatening the job security of many working men and women who are unable to find alternative jobs. Greater efforts on skill development of workers and managers is vital to garner and share the benefits of new technologies, the report stressed.

What the ILO has reported is equally true of India as there is a growing mismatch between demand and supply of highly skilled persons for Information Technology and other professional disciplines. At current levels of absorption in IT services, India could also face a shortage unless institutions of higher education expand and turn out quality personnel in much larger numbers than at present. This assumes urgency as India is currently the leading destination for services outsourced by advanced nations, particularly the USA

The World in 1900

	· ~	INC TOU	144 115 6:
Population	:	Averag	
Life Span	Men	- Women	(Per we
Japan	44	45	U.K.
Italy	44	45	11545
USA	48	51	U.S.A.&
Mexico	32	34	Denma
Afghanistan	41	42	German
			ļ

Average Working Hours (Per week, industrial occupations)

U.K. : 52.4
U.S.A.& Netherlands : 52.0
Denmark, France & Japan : 51.7
Germany : 51.6



PART



उद्याम कि विकास का मिल्या



Me live in a knowledge society. The Marxian doctrine of haves and havenots has now assumed a new dimension of information, and not of wealth in terms of money. Arriving at our best career option is possible, only if we gather as much information as possible on diverse professions and educational opportunities. We should break the shackles of prejudices such as attaching unqualified superiority for professions like medicine, engineering, and the civil services. There is tremendous diversity in the matter of careers covering conventional as well as emerging fields.

The list of possible careers is perhaps endless. A modest effort is being made here to highlight some of them that have relevance in the current national scenario with the seamless world as the backdrop. The career path of any individual has to be chosen, taking into account factors such as aptitude and learning ability of the student, financial position of the family, opportunities for higher studies, duration of the course, the gender factor, proximity of the educational institution from home, and prospects for early employment.

The treatment is indicative and not exhaustive. Any aspirant should gather further information on his favourite fields of choice.

AIRCRAFT PILOT

An aircraft pilot has a rare charm and glamour. The training is tough and expensive.

The pilot's job demands sound technical knowledge of his aircraft, ability for flawless

interpretation of the readings of sophisticated instruments, and for complex manipulations at takeoff and landing as well as in midair. Alertness, quick thinking, unambiguous communication with the ground control personnel, mental balance for facing trying moments during flights, grit, presence of mind, self confidence, and good physical fitness are necessary. Salaries and perks are attractive.

There are three progressive stages in the training of a commercial pilot: SPL, PPL and CPL (Student / Private / Commercial Pilot Licence)

Candidates who have passed 'plus two' examination with Mathematics and Physics as optional subjects and completed 16 years of age can embark on pilot's training. Flying clubs would give initial tuition. Those who have good physical fitness and a pass in the once-in-a-lifetime pilot's aptitude test will receive SPL. When you complete 17 years of age, you can sit for an objective test conducted by the Director General of Civil Aviation, New Delhi. You must have completed a total of 60 Hours of flying with 20 hours of solo including five hours cross country. Medical certificate has to be obtained from the approved authority. You secure a PPL.

CPL comes after acquiring thorough competence. Stipulated hours of flying covering solo, cross country, instrument, and night flying. Medical fitness to be certified either at the Air Force Central Medical Establishment, New Delhi, or the Institute of Aerospace Medicine, Bangalore. Passing a written examination and rigorous flying tests are vital.

tal training for three to five years would quired to make you a commercial pilot. ne Indira Gandhi Rashtriya Uran Akademi, Bareli is the premier centre that offers ab o training and has a combined programme t covers CPL and B Sc Aviation. There are reral authorised centres of training, with overnment subsidies to students. List of cenes in the site http://dgca.nic.in.

NIMATION & MULTIMEDIA

Courses in animation and multimedia offer opportunities to those who are blessed with artistic talents and imagination, and have a passion for computer-based studies. The programs are of short duration. Anyone with a 'plus two' qualification can go in for this kind of training.

Multimedia may involve a fine mixture of text, graphics, photographs, animation, video, sound, and interactivity, offering boundless possibilities in effectively conveying a message.

There is a convergence of art, science, literature, commerce, and industry in multimedia. Its application has made education and entertainment richer. CD ROM, Internet webs, advertisements, computer games, cinema and television require those trained in imation, Personal qualities are more imporint than specific academic qualifications.

Animation could be simple in educational CD IOM or Internet web sites. But television and tinema are in a different mould. Advertisement may durand products of dazzling colours and vigorous movements. Page making, cracnic designing, digital image processing, 2D and 3D animution, digital audio processing, and special effects are some of the areas to be mastered.

lub opportunities are in the fields of video

ARCHITECTURE

Architecture is a happy union of art and technology. It merges gift of imagination, sense of aesthetics, and sharp precision.

We need architects for the competent design of dwelling houses, schools, haspitzls, shopping complexes, churches, temples, factones, and other buildings. They plan and cesign housing complexes, gardens, parks, theroughfares, commercial centres, plazas, etc. Town and country planners ensure optimize utilisation of the available land. An architect should ensure that the design matches the environment, with cut sacificing expects such as safety, economy, and utility. They may have to supervise works.

Excellent skills in executing, crawing, and computer graphics, numerical acility and mathematical mind, and gift of visitalisation are essential attributes. An architect should be conversant with the availability of materals, ther quality, duracility, and cost he should rave the temperament for long periods of office work, and patience for revising or recoing a work without grumbling. He may have to make models for display and discussion before finalising the design. He should necessarily know the government norms, rules and regulations relating to construction. Sometimes a dient may ask for a turnkey service, which calls for liaison with contracting agencies. A good architect may have to de an artist, a dusiness man, and a manager rolled into one!

in universities conducting the Syear larch, leacheur of anti-rectural course, the المتنافظ مع الإساسة المتعلق المنطقة المنافقة test. Acquiring members is if the riser r-הימור תוייוני הוב ב בלוחונוני במשוות הואל לכי שונוות र्त आए रेंद्र रेति इत्यांस्ट्रांस.

cesses for specific use. It makes tremendous strides perhaps faster than electronics or computer technology. It is sure to play a vital role in our life in the coming years.

The impact of biotechnology will be felt in activities including agriculture, industry, medical treatment, and environment. New species of plants, new dimensions in preventive medicine and medical treatment, pharmaceutics, insecticides, hormones, manure, animal husbandry, cloning, transplantation of embryos, pisciculture, immunology, genetics, and many other areas will be influenced by this interdisciplinary field of study and research.

Biotechnology is closely linked to genetic engineering that involves the directed alteration of genetic material. Substances like human insulin, growth hormone and human interferon (a natural virus-fighting substance) have been produced this way. Recombinant-DNA techniques along with methods for producing monoclonal antibodies have improved medical diagnosis and oncology.

Students with diverse backgrounds can take up courses in biotechnology. A bachelor's degree may not take you very far in the profession, since this is primarily a research-oriented discipline. A genuine desire for sustained research work, persistence, and resilience to withstand temporary setbacks, and real scientific temper are essential for achieving success in this line.

There are many universities that conduct programs at different levels. Public as well as private sector organisations offer facilities for research.

BIOINFORMATICS

The nascent field of bioinformatics represents the marriage of biotechnology and information technology. It deals with computational management of all kinds of biological information. Sometimes it is referred to as in-silico biology indicating that it is performed on computer.

The quantity and diversity of biological information are so enormous that the data can hardly be analysed by conventional means. Sophisticated computerised techniques have become essential in processing the data. Bioinformatics uses computer software tools for database creation, data management, data warehousing, data mining, and global communication network.

The real challenge in bioinformatics is the intelligent analysis of the wealth involved in the deluge of sequence data. The information has to be interpreted for proper appreciation in terms of protein structure, function, and evolution.

Jobs opportunities would be in the areas of data mining (sorting huge amounts of unorganised biological data), gene banks, protein data banks, developing diagnostic kits, genomics (functions of genes), proteomics (functions of proteins), customizing software, etc. Those who have a genuine interest for sustained research work will find bioinformatics a fertile ground for studies and training. A mere Bachelor's Degree may not take you very far in the profession.

Proficiency in IT, biology, and mathematics is necessary for work in biotechnology. Those who come from any one of these disciplines can enter the field and master the other areas as required.

CHOREOGRAPHY

There are offbeat professions such as that of the choreographer. With the rising popularity of cinema, television, and stage shows of performing arts, there is great scope for choreography. It is the art of planning, composing, designing and arranging the steps, movements, and patterns in dances. Even subtle variations in feelings, moods, and emotions have to be reflected through expressions and movements. Group dances involving synchronous movements of several bodies have their own flavour.

Environment Protection Training and Research Institute, Hyderabad

National Information Center of Earthquake Engineering- IIT Kanpur

The process of disaster management offers opportunities to a wide variety of professionals such as an IT expert developing special software and an engineer designing an instant construction scheme. Presence of mind and mental toughness are essential for working calmly in trying circumstances.

FINANCE PROFESSIONS

Without the hassles of entrance tests or counselling sessions, you can walk into attractive professions in the finance sector. There are three options: chartered accountant, cost accountant, or company secretary. You need not attend a regular college, but undergo instruction through correspondence arranged by the concerned institute. You may, if interested, attend the oral classes organised by accredited institutions. The qualifications you acquire have a statutory status. The fees are moderate.

The training programs of the three disciplines are similar. After 'plus two', you pass a foundation test, and then intermediate and final examinations. The institute of chartered accountants has renamed the foundation and the intermediate as professional education (PE) I & II. If you are a graduate, you can skip the foundation.

CHARTERED ACCOUNTANT: After PE I & PEII and the prescribed 250-hour computer training, you should work for three years as an articled clerk with a practising chartered accountant.

Can work as an accredited accountant, authorised auditor, corporate caretaker, financial consultant, or tax specialist, or go for corporate jobs. Details: HYPERLINK "http://www.icai.org" www.icai.org (Enterprising youngsters may go for "CPA" - Certified Public Accountant - popular in many countries

including the US or "ACCA" - Association of Chartered Certified Accountants- prevalent in the UK and other countries.)

COST & WORKS ACCOUNTANT: Cost reduction is vital in any manufacturing industry. Computation of costs and identifying methods of cost reduction are done by cost and works accountants. They give the right prescriptions enabling the best possible management decisions.

Their functions include statutory maintenance of cost accounting records, evaluation of worth in investments, critical analysis of financial performance of organisations, internal co-ordination in industrial or commercial undertakings, budgeting, monitoring and analysis of data, and auditing. Details:http:// myicwai.com

COMPANY SECRETARY: He is not a secretary to the CEO or MD, but a top-notch professional in the corporate sector. If you are endowed with legal aptitude, analytical skill, tact, ability to keep official secrets, and sheer will to win through hard work, this is your line.

Companies with a paid-up share capital of Rs 200 lakhs or more are statutorily required to appoint a whole time Company Secretary. If the paid-up share capital is between Rs 10 lakhs and 200 lakhs, a whole-time CS should issue a 'compliance certificate'.

The functions of a CS spread over management, finance, tax, corporate planning, and legal affairs. He should ensure statutory compliance of the company on different fronts. He is a dynamic link connecting the board of directors, shareholders, and regulatory agencies. He acts as a confidant of the Board of Directors, counsels the directors and functional heads on policies, procedures, and legal implications. He takes part in the formulation of corporate policies and programs. He discharges secretarial functions such as filing company returns with the Registrar of Companies and other authorities. A Com-

pany Secretary can be a consultant or go for private practice.

Apart from passing the Final Examination, a candidate has to undergo practical training for 15 months in a company / under a practising CS.

Details : www.icsi.edu

INFORMATION TECHNOLOGY This is a discipline that opens the flood-

gates of job opportunities to millions of our youth. The diversity of services demanded by

industry is so large that one has to identify his area of operation. Conventional Bachelor's Degree in IT is not a must for a position in

have openings. India has gained substantial repute at the global level in terms of quality rendered.

According to one definition, IT is the con-

the field. People with different attainments

vergence of computer, information, intelligence, communication, Internet, and technical administration. It integrates data, equipment, personnel, and problem-solving methods in planning and controlling business ac-

tivities. IT provides the means for collecting, storing, encoding, processing, analysing, transmitting, receiving, and printing text, audio, or video information.

BPO (Business Process Outsourcing) is a significant area that absorbs people with com-

puter competence, good command of English language, and soft skills. BPO essentially involves a contract with an organisation in a developed country like the US, for providing a business process or function. This process may entail various kinds of efforts such as Accounting, Animation, Back office, Banking, Call centre operation, Chip design, Clinical research, Computer programming, Content development, Customer services, Desktop publishing, Engineering, Insurance services,

Invoking, Knowledge services, Management

consultancy, Medical services, Product de-

ugn, Software, Taxation, Telecommunication,

Transcription, and Travel agency services. There are several areas of work listed as IT-enabled services. Apart from thorough knowledge of the concerned domain, some of these

may require attributes such as effective communication, ability to think in English, pleasing attitude towards customer service, ability to react with empathy, and telemarketing skills.

India accounts for only a very small per-

centage of IT global market share; but the

BPO share is still less. The IT enabled services that may be considered as a component of BPO offers bright prospects of employment. Those who have acquired higher qualifications can take up work known as KPO (Knowledge Process Outsourcing) involving research and relatively higher order intellectual work that pays much more than run-of-the-mill BPO jobs. It has been estimated that KPO would grow at 46 percent to reach a staggering 17 billion US dollars by 2010, of which 12 billion would be outsourced to India. India may have more than 2.5 lakh KPO professionals by 2010. With our intellectual potential as the key factor, India could emerge

MANAGEMENT

as a global KPO hub.

Effective management of resources is an essential ingredient of progress in any organisation. Competent leaders should motivate people to optimise their performance with a definite goal in view. Simple common sense and general awareness alone may not solve complex problems in modern

systems. A business management curriculum

may contain subjects such as cost and man-

agement accounting, operations research, quantitative techniques, data warehousing and data mining, strategic management and supply chain management.

Usually a graduate in any discipline with a minimum of 50% marks can join the stream of management studies. There would be a

written test containing subjects such as data sufficiency & interpretation, reasoning, quantitative aptitude, reading comprehension, and verbal ability. Those who perform well in the written test would be called up for group discussion and interview. Admission to any business school involves these steps. The institution from which you secure your qualification has a profound significance in finding a placement. Premier centres like the Indian Institutes of Management offer attractive placement opportunities.

There are several management admission tests:

CAT - Common Admission Test, conducted by the IIMs (Many other business schools also use CAT score for the first level selection)

XAT - Xavier Admission Test, conducted by XLRI (Xavier Labour Relations Institute), Jamshedpur

MAT – Management Aptitude Test conducted by All India Management Association, New Delhi

ATMA - AIMS Test for Management Admissions (AIMS – Association of Indian Management Schools)

JMET - Admission to IITs & IISc

GMAT - Graduate management Admission Test (Globally recognised qualification)

The usual disciplines of specialisation are Marketing, Human Resources, Finance, Operations, and Computer Systems. There are however certain institutes or programs that specialise in specific areas, such as Rural / Plantation / Forest / Textile / Agri-business / Software Enterprise / Bank / Power / Retail / Hotel / Hospital Management, and Foreign Trade / International Business.

NANOTECHNOLOGY

This is a discipline that offers results that remind you of speculative science fiction. Would you believe that by manipulating matter at the atomic scale, materials up to

100 times stronger than steel, at a fraction of its weight, can be made? It makes most products lighter, stronger, cleaner, less expensive and more precise. Experts say that atoms in sand can be rearranged with addition of other elements to make computer chips. If we rearrange the atoms in dirt, water and air we can make potatoes. Patients may drink medicinal fluids containing nano-robots programmed to attack and reconstruct the molecular structure of cancer cells and viruses to make them harmless.

Nano is Greek for dwarf. 'Nano' in scientific parlance means one billionth. Nanotechnology is the science of the small. It studies the structure and behaviour of materials at atomic or molecular level.

Nano-robots could also be programmed to perform delicate surgeries. They can operate seamlessly without leaving the scars that conventional surgery does. Molecular computers could contain storage devices capable of storing trillions of bytes of information in a structure the size of a sugar cube.

Nanotechnology is expected to usher in the next industrial revolution. It will have wide applications in biotechnology, and in pharmaceutical, medical, agriculture, food and beverage, and environmental industries. From these descriptions it is obvious that it is a research-oriented discipline. Those from diverse science streams can seek entry to the field. National research organisations and certain universities offer facilities for research.

NURSING

Nursing is the face of compassion in the field of healing and medical service. Indian nurses have made tremendous reputation at the global level. There are great opportunities at the national as well as international levels. After 'plus two' with biology, chemistry, and physics as the optional subjects, you can undergo the 4-year B Sc or the 3-year General Nursing and Midwifery program,

		-	

two technologies of numerical control and teleoperation.

Limited facilities can be found in institutions such as the IITs for research-oriented work in this discipline, mostly as part of PG programmes. BITS Pilani, Indian Institute of Science Bangalore, and Manipal Institute of technology also have facilities.

SCIENCE & HUMANITIES

We are not trying to combine two opposites. In the mad rush for engineering and medicine, students and parents often forget options such as Dentistry, Veterinary Science, Forestry, Fisheries, Agriculture, Ayurveda, Homeopathy, , Pharmacy, Law, Fine Arts, Fashion Design, Acting, Music, Modelling, Teaching, Travel & Tourism, Journalism, Advertising, Public Relations, Foreign Lanquages, Design, Merchant Navy, Physical Education, Food Technology, Physiotherapy, Occupational Therapy, Special Education (teaching the handicapped), Spatial Design. Film & TV, Photography, Library Science. Food & Nutrition, Cosmetology, Criminology, Jewellery Design, Gemmology, and Defence Services. Each one of these offers opportunities to the right persons.

Mathematicians have before them areas such as operations research, programming, design of computer systems, and actuarial science. Statisticians play a vital role in national planning. Those who take up physics have ample opportunities in research in areas such as Astrophysics, Geophysics, Nuclear Physics, Astronomy, Meteorology, and Electronics. Chemistry is a discipline of its own charms, spreading its tentacles to fertiliser, pharmaceutical, metal, oil, soap, paper, polymer, textile, fuel, food, plastics, paint, varnish, and pesticide industries. Research in different branches such as organic, inorganic, physical, analytical, electro, radio, histo,

geo, bio - chemistry offer interesting challenges.

Certain professions are the preserves of those who have specialised in history, whereas some others show preference to graduates or post-graduates in history. Archaeology, museology, numismatics, epigraphy, and archives are examples.

Economists have openings in business journals, banking industry, planning cells, etc. where economic analysis is required. The Indian Economic Service recruits competent economists through UPSC examination.

Those who take up psychology have wide options as experimental / educational / industrial / clinical psychologists, counsellors, psychometrists (experts in determining aptitude, intelligence, etc.).

Commitment to social work can find expression in an effective manner, if we get ourselves trained in subjects such as sociology, social work, and psychology. Social work has different faces like community / medical / gerontological / correctional social work, baby care, childcare, and family welfare.

Learning languages has its own charms. Proficiency in foreign languages like French, German, Russian, Japanese, Spanish, Italian, Chinese, and Arabic will open opportunities to work as specialists in the diplomatic service, interpreters, translators, and tourist guides,

Graduates in any discipline after a course in journalism and communication can join the challenging career covering print and electronic media. Advertising and Public Relations are two disciplines close to journalism.

Law, fashion design, film and TV, management, teaching, special education, library & information science, and sports coaching, are some of the areas open to university graduates in any subject, but gifted with the appropriate aptitude. Graduates with poise and skills can contemplate the job of an airhostess / flight purser.

विवादीयोव जार्च द्वापित स्वाद्यात्र विवादी

Nirmala Krishnaswamy, Chennai

With the demand for personnel in various fields ever on the increase in the United States and in many other countries abroad, there are vast opportunities available for Indians, both for academic pursuits and for taking up jobs in different parts of the world.

However, whether it is to seek greener pastures or to improve one's academic credentials one may have to appear for one or more of the following examinations. These are:

1. TOEFL: Test of English as a Foreign Language conducted by ETS (Educational Testing Service).

2. SAT : Scholastic Aptitude Test

3. GRE : Graduate Record Examina tions

4. GMAT : Graduate Management Ad missions Test

S. IELTS : International English Lan guage Testing System

TOFFL:

The Test of English as a Foreign Language (TOEFL) determines the ability of non-native speakers of English "to use and understand English as it is spoken, written and heard in college and university settings."

This test is offered in different formats depending on where the test-taker is located. Non-native speakers at the 11th grade level or above should take the TOEFL test as a pre-requisite for admission into undergraduate courses in colleges and unriers, ties where English is used or required.

The Test consists of the following areas: a. Listening/Reading Sections:

Listening passages simulate college lectures and follow 'natural' speech patterns, including pauses, corrections and errors in grammar.

Reading passages, on the other hand, are more academic in nature so that they are closer to college reading assignments. Students have access to a glossary.

h. Structure Section:

Grammar skills are tested across all areas

c. Writing Section:

There are two essays: One 30-minute and one 20-minute essay.

d. Speaking Section:

Six open-ended speaking questions require test takers to speak into a microphone. In September 2005, Educational testing Service (ETS) introduced a new TOEFL reamer. based test (IBT). This new TOEF test in administered by using the interner This allows the ETS to capture speech and some responses in a standardized marrier for test is expected to be more current all offer the world this year Andropieta collour school is available at mises his in a www.ets.org,toeti" www.ets.org.tber - 5 of cities where TOES, a serie more way. posted in the courses and "see" "see " tion of this Net are the second statement every mean in order to the first section access tox tops, and to me among the سين الدين الأدامية في سين الدينة فالإمانة عالم 13.41 و منايره مريد عاد مراد الارتباء بالمنايين TOBLEM AND THE THE HELL THE RESIDEN بيبدا مين راده دوس عاري

والمراجعية مالاناك

a real reserve out with white of the first

reports by phone, fax, or mail and have them sent to institutions that he did not identify when he registered to test. Credit cards are required for phone and fax orders.

To order by phone, candidates must call 1-609-771-7714. For this, the following details are required: the 7-digit registration number printed on the admission ticket (PBT) or the 16-digit appointment confirmation number (CBT), test date and date of birth.

A valid credit card (international)

A four-digit institution code (PDF) and two –digit department code (PDF) for each score report that is requested.

To order by fix or mail, the TOEFL CBT/ PBT Score Report Request Form (PDF) along with all credit card information is to be completed and faxed to 609-771-7500.

To order by mail the Score Report Request Form must be completed and mailed with payment to

ETS-TOEFL IBT

P.O. Box 6153

Princeton, NI 08541-6153 U.S.A. The iBT measures the candidate's familiarity with English as a communication tool in every day situations. The Computer Based Test (CBT) tests the candidate's proficiency in individual language areas such as grammar, usage and vocabulary and the scores obtained in each of these is used to arrive at the candidate's overall proficiency level in language. Instead of measuring the candidate's grammar proficiency through questions based on structures, the iBT tests the candidate's control over grammar directly by assessing the candidate's grammatical structures from the way he employs them in his essays.

TOEFL – CBT (Computer Based Test)
TOEFL – CBT has 4 sections

 a. Listening: In this section the candidate listens to short and long conversations, lectures and class room discussions. The questions answered give an insight into the candidate's ability to identify facts and options that are part of the listening passages. There are 30 to 50 questions and the timelimit is 40-60 minutes.

b. Structure: There are 20 to 25 questions to be answered in 15 to 20 minutes. This section tests the candidate's command over basic English grammar rules. The questions are in the form of

i. sentence completion and

ii. error identification

c. Reading: There are four to five passages. The questions number between 30 and 50. The time allotted is 40 to 60 minutes. Passages cover topics which a school student should be familiar with.

d. Writing: Here a candidate is required to write an essay on a general topic. The candidate has half an hour within which he composes his essay.

TOEFL iBT (Internet Based Test)

a. Listening: There are two conversations between two people, two lectures including some student comments and two other lectures which do not have student comments. There are five questions based on each of the conversations and six on each of the four lectures.

While the conversations could be between a professor and a student or between a student and a librarian lasting two to three minutes each, the lectures could be on a whole range of subjects.

The questions test candidates on what they understand from the speakers, ideas, what the implications are and whether they are able to draw inferences, whether they can locate the main theme in a lecture and whether they are able to identify details, understand idioms, summarise main points and perceive the speaker's tone and attitude.

b. Speaking: This section tests the candidate's ability:

i. to speak cogently on topics in an academic setting:

ii. to participate in a discussion

The candidate's responses are recorded. Preparation time is given. There are six tests of which two are independent and four are integrated.

For the independent tasks: a candidate's response time is 45 secs which comes after a 15-second preparation time for the first one and for the second, a candidate has to give his opinion and also the reason(s) behind it.

to read, listen to an one-minute conversation on what is printed and then summarise what he has heard. The voice is taped. The response has to last 45 seconds after a 30

For the integrated tasks: a candidate has

second preparation time.

Tasks 4,5 and 6 are all related to listening and then summarizing. The tasks get progressively more and more challenging.

consists of two tasks, one of which is an independent task and the other an integrated one. The former is allotted 30 min-

c. Writing: The part of the TOEFL exam

utes to complete and the latter: 20 minutes.
The iBT gives a better picture of the can-

didate than what one can get on the CBT.

The Writing section is new in concept and the speaking section too is quite different. Various language skills are tested and the preparation has to be systematic, and nothing short of a concerted effort would give the desired result.

The TOEFL test can be taken only once per calendar month and at present costs U.S. \$ 140 per test.

SAT Scholastic Aptitude Test

The SAT examination is for those who wish to pursue an undergraduate course in the U.S. Some universities require both the TOEFL and the SAT scores.

This test consists of a

a. math section

b. critical reading section and c. writing section

SAT math section:

This part of the test consists of

i. Two 25-minute sections and one 20-minute section

ii. 44 multiple-choice and 10 grid-ins and iii. is worth 200 to 800points

Questions on algebra are included and although there are some questions on triangles, trigonometry is not required to solve them. The other topics a candidate should be comfortable with are:

Sets, absolute value, radical equations, exponents and functions.

The Math Section essentially consists of

problem-solving, questions on topics a candidate is expected to have learnt at school, including geometry, algebra and arithmetic.

SAT Critical Reading Section

This section tests the candidate's reading comprehension skills.

The test consists of:

i. Two 25-minute sections and one 20-

minute section

ii. 48 reading comprehension questions

iii. 19 sentence completions questions The test is recorded on a 200 to 800 point scale

In the Passage-Based Reading, candidates are asked to read short and long passages followed by some multiple-schoice questions.

In the Sentence Completion question, the candidate are presented with incomplete sentences and are asked to finish them with the correct word or words.

SAT Writing Section:

This section consists of i. 49 multiple-choice questions and I. an exart

25 minutes is to selepent on the estay.

Tre test is worth 200 to 200 points.

The Essay:

The Essay will require students to read an 80-word subject prompt that makes a statement or claim. Candidates need to take a stand in their essays and support it with examples from their own experience. The essay does not test the candidate's writing ability as mush as it does other skills, such as: organization, idea development or backing an argument.

Identifying Sentence Errors:

There are 18 Error identification questions. A sentence may or may not have an error in it.

Improving Sentences:

25 sentences are given and these are to be improved without changing the meaning of the original sentences.

Improving Paragraphs:

There are six of these. Much like improving sentences, paragraphs are required to be improved, but again, without changing the original meaning intended.

GRE-Graduate Record Examinations:

The GRE <u>General</u> Test "measures critical thinking, analytical writing, verbal reasoning and quantitative reasoning skills that have been acquired over a long period of time and that are not related to any specific field of study".

The GRE <u>subject</u> Tests assess undergraduate achievement in eight specific fields of study.

These are: 1. Biochemistry, Cell and Molecular Biology

- 2. Biology
- 3. Chemistry
- 4. Computer Science
- 5. Literature in English
- 6. Mathematics
- 7. Physics
- 8. Psychology

Prospective graduate applicants are the ones who sometimes take the Subject Tests.

Some Subject Tests yield sub scores that

can indicate the strengths and weaknesses of individual.

Student's preparation and this is useful for placement purposes.

\The Subject Tests are given at paperbased centers worldwide three times a year in November, December and April.

If a prospective candidate is planning to take the GRE in fall 2007 (Sept/Oct) or later, it is to be noted that the test format and delivery will be dramatically different from the current one.

A comparative table is given below indicating the differences between the Current GRE and the new GRE.

Test development, design and field testing will continue for the new GRE test and the finer details ought to be available at a later date.

GMAT-Graduate Management Admissions Test

This is a 4-hour computer adaptive test. The candidate's performance on previous questions will determine which questions come next.

The GMAT exam is taken by applicants keen on joining a business school in the U.S. While it is true that most schools require applicants to have a minimum amount of work experience, the minimum is usually two years. However, more important than the length of experience is the quality of work experience—where a candidate worked, what his level of responsibility was and how he progressed through the ranks. GMAT tests the candidate's basic quantitative and verbal abilities and contains no business principles at all (except as a basis for problem solving or as reading comprehension passages).

Questions at the beginning of each section have a greater impact on the candidate's score than do those which come later in the section.

· GMAT is one of the costliest exams - U.S.

\$ 250/-. It now appears that a few of the business schools in the U.S. (such as Stanford Graduate School of Business) have decided that because of such prohibitive costs which may scare off some of the potentially brightest of candidates from B-Schools, they would allow applicants to submit scores from the GRE in place of scores from the GMAT

"In recent years many B-Schools have stated waiving the GMAT requirements for applicants to executive MBA programmes." GRE applications starting from July 2006, is

to be U.S. \$ 160/- in India.

IELTS-International English Language Testing System

This is an exam jointly managed by the University of Cambridge ESIOL Examination (Cambridge ESOL), British Council and IDP (International Development Programme).

language skills: listening, reading, writing and speaking, conforming to the highest international standards of language assessment. IELTS is recognized by universities and

IELTS, Australia: IELTS assesses all four

employers in a large number of countries including Australia, Canada, New Zealand, the U.K. and the U.S.A. Anyone who is about to finish schooling

and is above the age of 16 can sit for this

Total time taken: About 4 hrs.

exam. People with higher educational level and/or experience can also attempt the test. Students planning on higher studies abroad, professionals, job seekers, research scholars and just about anyone connected with academic work can appear for the test. There are four modules to the test cover-

ing all four aspects of a language: reading, writing, listening and speaking. The first three are taken in a single session with no breaks in between the rests. The speaking module alone may be taken on a day decided upon by the centre, but usually on a day very close to the other three modules. In the table given below, some details of the exam are given:

Modules Time Taken Some details of questions

Evaluation is on a 0-9 band scale, 9 being the highest a candidate can get. Results are made known within a fortnight from the actual date of the exam. Unlike the rule in the past which required

a 90-day gap between two test dates for anyone wanting to repeat the test, a candidate can now retake the test whenever he/ she wants. The tests are conducted at least twice a

month and in peak seasons the frequency is increased.

	For more details contact: ieltsindia.com					
·	No	.1				
	The new TOEFL iBT follows the format given below:					
Section	Timing	No. of questions	Score Scale			
1. Reading	60 to 100 mts.	36 to 60	0 - 30			
	(i	ncluding time taken				
		to read)				
2. Estening	60 to 90 mts.	34	0 - 30			
	(1	including time taken				
		to listen				
		to passages)				
3. Speaking	About 20 minutes	6 tesks	0-30			
4 Wisting	50 minutes	2 tacks	0 - 30			

No. 2

		NO. Z	
		he current GRE is valid till the summer	
_		Current GRE	New GRE
1	Test format	Computer adaptive: the computer	Computer-based linear exam:
		adapts to test-taker's performance	every test-taker receives the
			exam if taken on the same day.
2.	Duration	2 ¹ / ₂ hours	4+ hours
3.	Test dates/	most weekdays and week-ends, all	Approximately 30 fixed-dates
	Frequency	through the year	per year
4.	Method of Scoring	Verbal Score-200 to 800 points	Verbal Score - 110 to 150 points
		Quantative Score-200 to	Quantative Score-110 to 150
		800 points	points
		Analytical writing Assessment-	Analytical writing Assessment-
		0 to 6 points	0 to 6 points
5,	Test Content	a. Analytical Writing:	a. Analytical Writing:
		2 essays: One 30-minute argument	2 essays-30 minutes each for
		Essay and one 45-minute issue essay	the argument and issue based
			essays
		b. Quantitative:	b. Quantitative:
		28 multiple-choice questions	two 40 minute sections*
			- Quantative reasoning skills
		One 45-minute section	tested more thoroughly
			- fewer geometry, questions
			- more 'real-life' and data
			interpretation questions
			- new question formats
			- new on-screen calculator
		c. Verbal:	c. Verbal
		30 multiple-choice questions	two 40-minute sections*
		One 30-minute section includes	- analogy and antonym
		analogy and antonym questions	questions eliminated
		, ,	- will include more critical
			reading passages
			- new question formats.
•	one section may be ex	perimental	
-		No. 3	
_		GMAT at a Glance	
1		4 hours	
2		Most week-days, year round	
3		WWW.MBA.com	
4	. Test areas:	 a. Analytical Writing Assessm 	ent:
		2 essay questions - 30 minute	es per essay
		b. Quantitative:	
		37 multiple-choice questions	- 75 minutes
		c. Verbal Section:	
		41 multiple-choice questions	·
-		75 minutes	
8.0			

Reading	60 min.	2,000-2,750 wa	ords covering two or three passages
Writing	60 min.	Two tasks are gr for task 2	ven Time spent: 20 min, for task 1 and 40 min
Speaking	11-14 min.	Candidate has t questions.	o speak on general topics as answers to
			onal interview. Has also to speak for a ministe of $\frac{1}{2}$ topic. Preparation time, one minute.
	The company of a second	newark symphotic is No. 10	,
		-	•
			• •
Hirys		પ્રાથક કરો તાલુકા	វ្សាទិន្ត្រាម្នារ
The second secon	ne <u>tan dense de</u> debut de mee abs	waren en and the house the	Nirmala Krishnaswamy, Corra

some details of questions

40 questions spread over 4 sections

glish, a lot of the opportunities provided for the young were frittered away if only because of our obfuscated policies of languagelearning in general, and English in particular. When exposed to two or even three lanquages in the first few years of schooling, if taught efficiently, a child learns all of it effortlessly. In the absence of this ideal, inefficiency in language-learning creeps in not only in the learning of English but in that of all other languages as well. This negativity is reinforced even later when it's time to concentrate on the maths-physics-chemistry-biology syndrome and every student is strait jacketed into the science mode, and most students, and more so the parents,

bend over backwards to somenow get a seat

man engineering medical college. Students

too play along and ut the end of eight to ten semesters and harquite a few haves been

eral arrears latery an average verge errorg graduate is found working in English Succession

Modules

Listenina

Time taken

30 min.

tive ability of the graduates It is at this point that along with the

articulate, competent student allage room ber of the less than proficers, executivene selves for a variety of classes a my transmy course, for that matter - in order to error and their command over English It is a tailed at both for the teacher and the tanget Prints you make up in three to six more a set of was left undone formated unit accompanied It is, therefore, not account of the safe of in these classes to all the compression of do Limprove my Erg. 2014

Hower in 2-2722 to 20 modern nanother has as a commental for ng drowness saala a maran sa ka k cup by covered

PRISTS AND THE CO ressy, sour TIproposition of the continue grand a series of the series o

question asked is what can one read? Time being in short supply, one has to be practical. The following observations made may be of use to those who realize they have a potential to do better and all they lack is a guiding force and fillip to their attempts.

Read newspaper editorials every single day. There are three very good reasons why this is of great benefit.

First, the English is as it ought to be written.

Second, you, as a reader, are exposed to quite a few opinions, facts and figures. It is only when you are exposed to other people's ideas that you can form your own. An editorial certainly expresses some strong opinions.

Keep asking yourself constantly whether or not you agree with the editor. If you do, why do you think you feel the same way, and if not, why not? This way it fine tunes your own opinions. Third, there are lots of vocabulary items, words and phrases, which you can learn painlessly. These will slowly become part of your active vocabulary.

(A word of caution, though. There are newspapers and newspapers. Make sure you choose a newspaper of some standing and preferably one which is fairly balanced in its views).

Talking about vocabulary, do you learn words individually? One common query is: "Can we learn about ten words a day by choosing them from the dictionary?" This is a formula for disaster. A sound piece of advice would be not to learn words in isolation. Learn them always as collections. A collection is the 'habitual placing of a particular word, next to another word or words, or a group of words so placed. 'Collocation' itself is formed from the Latin 'collocare' which means 'placed together'.

An example will make it amply clear. Let us take the word 'avail' – one of the most ill-treated words. These days discounts being offered (genuine or otherwise) at the drop of

a hat, there are banners and advertisements put out which say 'avail 5% or 10% discount'. 'Avail' in this context ought to be used as 'avail oneself of something'. So, it is: Avail yourself of a 5% discount. However, 'avail' can also be used in the following manner' I tried very hard but to no avail (always used with a negative connotation). Meeting new words is like being intro-

Meeting new words is like being introduced to a stranger in a gathering. If you must know more about the person, a lot of effort, along with a certain amount of healthy curiosity, is required on your part.

How do we familiarize ourselves with a new word?

- a. See how it is spelt.
- b. Check out its pronunciation. Even common enough words such as 'draught' or 'honour' and 'honest' are mispronounced by many educated people.
- c. Find out what its part of speech is. The context will help you.
- d. Ask yourself if it can be converted to other parts of speech.

For eg: The word 'flop' has three meanings and can be used both as a noun and as a verb. As a verb, the meaning could be

- 1. hang or swing loosely
- 2. sit or lie down heavily and clumsily
- 3. fail totally (informal)

As a noun,

- 1. a heavy and clumsy fall
- 2. a total failure

'Floppy' is an adjective with 'floppier' and 'floppiest' being the comparative and superlative degree forms. It means: tending to fall, not firm or rigid. It can be used as a noun too (plural, floppies): flexible removable magnetic disk used for sorting data. The adverbial form of the word is 'floppily' and 'floppiness' is another noun form. This is an exercise that a word should be put through so that, more than anything else, it has a better chance of sticking in the mind. It is

like locating a place on a map. Memory recall gets stronger.

In all probability, a new word that you have made a mental note of, will reappear in your reading. Note the contexts in which the word is used. Reading is only a part of the exercise. You have to listen to how the language is spoken. Listen to BBC or the VOA as often as you can manage. Be choosy about the programmes (such as discussions or interviews) that you hear on television (Some are excellent examples of how not to speak!).

Maintain a notebook or a file with individual pages dedicated to 'specialist' words such as those ending in – cide, mania and – phobia (for eg. Matricide, genocide, agarophobia, dipsomania, acrophobia), specialist doctors, subject names and so on. It would be a good idea to have synonyms grouped together. For instance, you might

have a list such as commotion, hubbub confusion, chaos, melee, pandemonium mayhem, tumult, bedlam, anarchy – pu

down in the order of severity.

Phrasal verbs (verb + preposition and o adverbial particle combination) are an integral part of the language and you have to be confident of their usage. Indians, as a whole often use prepositions where there is no need for one (eq. Cope up; We cope with

problems and not 'cope up' with them.

Word order is another important are;
which would need your attention. All of thi
is possible with strict discipline in study
dedication and sincerity of purpose.

Reading, by far, is your best teacher. That and a confidence in yourself is perhaps the best formula for considerable success in you attempt to get a better command over the language.

Jagan Nath, New Delhi

The principal of a post-graduate college in New Delhi once asked me: "Is Mr. Harish your cousin brother?" I was aghast at her question. Since I had been very friendly and frank with her, I told her to say only cousin. She accepted my advice gracefully. I wondered when a learned person can commit such an error, what about ordinary humans and students?

Students must be told to avoid such an error. Try always to chop off the dead wood. Mover say new recruit, say only recruit. Don't use the expression "past history". Only "history" will do. History is collection of past events. And avoid saying "final conclusion", say only "conclusion".

In the following examples, the words in inverted commas should be omitted; 'advanced' prediction, 'fatal' killing, 'definitely' decided, 'the other' alternative, for 'a period of' two weeks, 'dead' body.

Clear Writing

According to the Asian Reporter, a manual on reporting techniques, published in Maria, Philippines, clear writing does not come words by chance. It is the result of clear transaction words the reader is familiar with and prove the chances of your getting acceptance familiar words can be forceful. I can report follow you easier if you go ether the company words. Here is a list of core

Complex	Containon
monumental	big
terminate	end
witness	see
purchase	buy
utilise	nze
majority	most
reside	live
procure	get
proceed	go
contribute	· give
request	ask
endeavour	try
summon	call
category	class
prevaricate	lie
incarcerate	jail
inaugurate	start
facilitate	help
inundate	flood
-	

Common

No to deadwood

Complex

Omit verbal deadwood, says the Reporter. There is no reason to call a spade "a long-handled instrument for turning earth in a garden". Here are some examples of verbal deadwood:

 Instead of use these words for the reason that because at the present time now tendered his resignation resigned affixed his signature signed told his listeners said united in holy matrimony married used for fuel purposes fuelled held a conference met in the immediate vicinity near was able to make his escape escaped

In fact, incompetent teachers and some private coaching institutions are responsible for the present state of affairs. Sample a printed handbill tucked away in morning newspapers, courtesy of the hawker: "You feel weak in English? You don't know how to

give answer to a question or write a simple application/paragraph or draft a letter? You have a poor vocabulary? The remedy suggested is: 'Improve your weakness' under the guidance of our highly qualified, experienced teaching staff."

There has been a mushroom growth of coaching schools which claim to develop your writing and speaking skills. These "shops" sell "spurious" goods. How many of these schools have the necessary scholarly atmosphere and how many have well-qualified staff? Sample a board outside one such study shop; "Tutions offered to students from Class Vth to Class Xth. Contact Principal between 10 to 11 a.m."

Now these few words contain howlers. The common man and even class X or XII students are ignorant of the correct spelling of "tuition". The word is even mis-spelt by teachers of English in public schools. And with Roman expressions "th" is never used. Say only Class V and X. If you want to use "th" it should be 5th, or 10th.

Howlers galore

I recall a meeting I had recently with a gentleman who claimed to be a first-class M.A. in English with 65 percent marks. This was the shock of my life. For, a first-class in M.A. English is rare, and 65 per cent is incredible. If at all a first class M.A. in English is produced once in a blue moon by a good university, the candidate will have only 60 per cent marks. He told me he was doing Ph.D. and promised to write to me when he went home in Jabalpur, Madhya Pradesh.

As promised, he wrote. There were four mistakes in his hand-written letter. The first sentence contained incorrect spelling of the word "received". He wrote "recieved". He also enclosed his resume, which was horrible. At the top it was written bio-data. Now bio-data is Indian English. No Englishman will ever use this expression. They say resume or CV (cur-

riculum vitae). In the resume, he freely used the words Class Xth and Class Xllth. I edited the resume, and sent it back to him. I wrote to him that writing Xth was a silly mistake which should be avoided. Within three weeks, he sent me a revised copy of the resume, and Class Xth and Class Xll were used. He enclosed the university marks sheet which also used Xth and Xllth.

The common mistake committed today is: visitors can see the Principal between 9 to 10 a.m. When the word 'between' is used, we should say between 9 and 10 a.m. Or visitors can see the Principal from 9 to 10 a.m.

Scholars, newspapers and prestigious magazinessay "comprise of". Which is wrong. We can say: this book consists of 100 pages, this book comprises 100 pages. Never use "of" with comprise.

Mrs and Ms

Never use, or misuse, the word "Mrs". It's wrong to say Mrs. Lila Wati, Mrs. Shakuntla Devi or Mrs. Srilatha. "Mrs" is used with the name of a woman's husband. For instance, we can say Mrs. Gita Sehgal, Mrs. Sehgal but we cannot say Mrs. Gita. In a public school which I visited a number of times, this announcement was often heard: Mrs. Kusum is requested to go to class IV, and Mrs. Kiran is assigned to class X in the next period. A visitor from the West can be hoodwinked when she sees the board saying Mrs. Lila Wati, Mrs. Shakuntla Devi or Mrs. Srilatha. Shewill think that Wati, Devi and Srilatha are the names of the women's husbands. When H.T. Rama Rao, film star-turned Chief Minister of Andhra Pradesh, passed away, most of the newspapers referred to his wife as Mrs. Lakshmi Panathi, It should have been Ms. Lakshmi Panathi. The word "Ms" can be used with both married and unmarried women. The pronunciation is "Mizz".

Dr. (Mrs) Usha Malhotra*. We generally

my English boss laughed at it. She described it as Indian English. She explained that in England the patients never bother to think of the marital status of a doctor. They are concerned with the skill and talent of the doctor.

Another common error witnessed today is 'appartment' instead of "apartment" to describe a block of flats. It should be apartments.

Unfortunately, the standard of English in schools is pathetic. Not to speak of government schools, where English teaching begins from class V, even public schools, where English is taught right from Nursery and KG, suffer from this malady. Students right up to the senior secondary level lack the basic rules of the English language. One is surprised to see senior students writing: "three battles were righted in Panipat" and "three birds were catched by the hunter". Such students are penalised when they take the Board examination. What is the remedy?

The students have not learnt the three forms of the verb and adjective. Even ordinary singular-plurals are not known to them. They write "childrens" and "sheeps". Some of them do not even know the difference between "there" and "their", "it's and its", "lose and loose", "advice and advise", "practice and practise".

Basic grammar

A senior English teacher explained: The students refuse to go back to classes V or VI grammar books to learn the three forms of verb. They consider it below their dignity is consult a junior book.

Indeed, the student today is looking to the shortcut to success. He does not bother about the fundamentals. His only aim is to score pass marks, gra

As a result, senior write even a si

I recall a meeting with a teacher, who had been working in a missionary school and taught junior classes all subjects. We met every morning at the bus stop. She had to change two buses to reach her school. She was in search of a job near home.

One day she visited my home. She told me that she had applied for the post of an English teacher advertised by a public school nearby. She knew that the Principal of the school was a friend of mine. She wanted my help.

I said to her: "To be very frank, we have met only at the bus stop. I don't know where you stand. For my satisfaction, if you could just write a simple leave application to the Principal, that would do. Please pardon me for asking you such a simple question".

When she wrote the application, it was horrible. She deserved zero out of 10. I told her there was no need to be disillusioned. "I would send you to an experienced teacher to brush up your knowledge till the interview and you will find yourself full of confidence". Neither she went to my friend nor appeared for the interview.

The English language has taken a long time to march from Chaucer to H.G. Wells, Bernard Shaw and nearer home Gandhi, Nehru, R.K. Narayan, etc. Some of them, particularly Gandhi and Nehru, wrote in their own style, lengthy sentences using bombastic words.

Indian Newspapers

Newspapers in India are fond of presenting articles or news items containing lengthy sentences. A long sentence is not easily understood and is sometimes confusing. On the other hand, pick up any English newspaper published in England or the USA, you will find short sentences and short paragraphs in simple language. They believe that simple words set in a smooth sentence. We enjoy this language for its beauty and clarity.

A senior journalist stressed the need of using a simple and familiar language while writing. He said: "News is for the general reader, who can be anyone from the village barber to the town Mayor. It must, therefore, be told in a language that is simple, forthright but decent and familiar. One must write to express, not impress.

Drawing with words

Writing is just drawing with words. A writer should be able to put in the reader's mind a reproduction of the picture he sees in his own. To be able to do that, he must use specific and concrete words. He should be positive while writing. Don't say he did not win, only say he lost. Never say did not succeed/was not successful, say only failed. Instead of "did not pay attention to", say "ignored". "Did not accept" should be "rejected". The shorter an expression, the clearer it is.

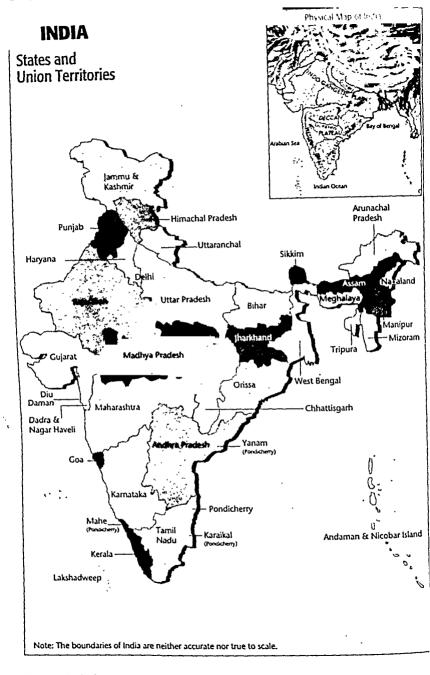
Avoid using idioms, which are expressions peculiar to a language. They are derived from native experience. Idioms will, therefore, spoil English for non-natives like us. They emphasise their foreignness and diminish their universal appeal. Let's take our English straight without using such expressions as the "apple of one's eye" or "he has money to burn" or "he lost face". Respectively we can say "favourite, rich and shamed".

Whatever the standard of English in Indian schools, colleges, and civil services, the lure of the language still persists. As a lover of English remarks, "Though British imperialism ended more than five decades ago, British linguish imperialism still continues without a murmur of protest by patriotic Indians".

P.S.: Candidates for the post of an English teacher in a public school in New Delhi, in a written test, were asked to change the gender of ram. Six of them wrote: "Sita"!

MDE

08



The Country

north latitude and 68°7' and 97°25' east ngitude. India measures 3214 km from orth to south and 2933 km from east to

ndia is located between 8°4' and 37°6'

rest with a total land area of 3,287,263 sq. m. India is the 7th largest country in the world. It has a land frontier of 15,200 km

nd a coastline of 7516.5 km. Andaman and Ricobar Islands in the Bay of Bengal and Lakshadweep in the Arabian Sea are parts of

ndia.The country shares its political borders with Pakistan and Afghanistan on the west and Bargladesh and Burma on the east. The northern boundary is made up of the China,

Nepal and Bhutan. India is separated from Sri Lanka by a narrow channel of sea formed by the Palk Strait and the Gulf of Mannar.

Physical Regions

The mainland, in geographical terms is broadly divided into a) the great mountains, b) the river

plains, c) the desert and d) the peninsula.

Mountain Ranges

The mountains extends for more than 2400 km. They are seven.

- 1. the Himalayas,
- 2. the Patkai and other ranges bordering India in the north and north east,
- 3. the Vindhyas, which separate the Indo-Gangetic plain from the Deccan Plateau,
- 4. the Satpura
- 5, the Aravalli
- 6. the Sahyadri, which covers the eastern lunge of the West Coast plains and
- 7 the Eastern Chats, irregularly scattered aretheEastCoast and forming the boundenced the East Coast plains.

Important Mountain Peaks: Height in meter above Mean Sea Level:

(1) K2* 8,611

- (2) Kanchenjunga 8,598 (3) Nanga Parbat 8,126
- (3) Nanga Parbat 8,126 (4) Gasher Brum* 8,068

8,047

7,885

7,821

7,817

7,806

7,788

7,756

7,672

7,544

7,422

7,138

7,138

7,135

7,125

7,090

7,066

- (5) Broad Peak*
- (6) Disteghil Sar* (7) Masher Brum E
- (8) Nanda Devi
- (9) Masher Brum W*
- (10) Rakaposhi* (11) Kamet
- (12) Saser Kangri
- (13) Skyang Kangri*
- (14) Sia Kangri*
- (15) Chaukhamba (Badrinath Peak) (16) Trisul West
- (17) Nunkun
- (18) Pauhunri
- (19) Kangto (20) Dunagiri
- in Pak-occupied territory

Watersheds

There are mainly three watersheds.

- 1. Himalayan range with its Karakoram branch in the north,
- 2. Vindhyan and Satpura ranges in Central India, and
- Sahyadri or Western Ghats on the west coast.

Rivers and the Plains

The main rivers of the Himalayan group are the Indus, the Ganga and the Brahma-putra. These rivers are both snow-fed and rain-fed and have therefore continuous flow through-

India: Social Indicators

Population (million-2001	Census) 1028.73
Growth Rate	1980-2001 1.99
	2002-2015 (Projected) 1.29
Density (per sq.km)	
	100 males)
•	or Female population48.19
Literacy Rate	64.849
(Male: 75.85%, Fen	nale: 54.16%, Rural: 59.40%, Urban: 80.30%)
Life Expectancy at birth	Male 63.
, ,	Female
Infant-Mortality (per 100)	3 live births) 2002 6
	0 people) 2
	00 people) 8.
	rojection for 2007) 19.39
•	Rural
	Urban 15.19
Access to drinking water	(of population)
Access to Sanitation facili	ties
Health Expenditure (of G	DP)4.99
	Private (of total health exp2000)
	Public (of total health exp2000)
Expenditure on Education	1 (2003-04)
Total Labour Force (2001)460 million
	Projected (2010)543 million
Growth rate per annum	2 9
Labour Force Women	
Total Employment (Marc	h 2000)
Growth Rate	(1983-94)
	(1994-2000) 0.989
Organised Sector Employ	yment
	Public Sector 2003
	Private Sector
	Total
Source: Economic Survey, G	ovt. of India 2004-05 and World Development Report, World Bank 200

out the year. Himalayan rivers discharge about 70% of their inflow into the sea. This includes about 5% from central Indian rivers. They join the Ganga and drain into the Bay of Bengal.

The plains of Ganga and Indus runs for about 2400km with a width ranging from 240 to 320km. They are formed in the river basins of Ganga-Yamuna, Brahmaputra, Indus, Godavari, Kaveri, etc.

Length of some important rivers (in kms) :

IAGL2 (HEVILLA)
2,900
2,900
2,510
1,450
1,290
1,290
890
760

Desert

The Desert region is located in the western and north western part of the country. It can be divided into two parts the great desert and the little desert. The great desert extends from the edge of the Rann of Kuchch beyond the Luni river northward. The whole of Rajasthan-Sind Frontier runs through this.

The little desert extends from the Luni be-

tween Jaisalmer and Jodhpur up to northern

wastes (dry and rockyland).

Peninsula

Peninsula is marked by elevated landmass with height ranging from 460 to 1220m. The Deccan and the Southern part surrounded by water on three sides make the peninsula. It is flanked by Eastern Chats on the east and Western Chat on the west. Between the Chats and the Sea lies the narrow coastal belt.

Climate

Traditionally, seasons in India is divided into six-Vasanta (Mar-Apr), Grishma (May-Jun), Varsha (Jul-Aug), Sharada (Sept-Oct), Hemanta (Nov-Dec) and Shishira (Jan-Feb). In broad terms, India experiences 3 main seasons, such as (a) Winter - Dec to March, (b) Summer - Apr to May and (c) Monsoon - South West Jun to Sept, and NE (retreating

SW monsoon) - Oct to Nov. Between the

two main seasons are Spring and Autumn.
India receives 86% of the rain during SW
monsoon. NE monsoon is a very restricted
one-experienced in Tamil Nadu, Kerala and
sometimes AP and Karnataka.

India has 6 types of forests. (a) Evergreen

(Tropical Forests) - is found in areas with 200cm

to 300cm rainfall; av. annual temp. 20°C to 27°C;

av. annual humidity >80% (b) Deciduous (Mon-

Natural Vegetation

soon Forests) - found in places with lesser rainfall between 150 to 200 cm; mean annual temp between 24°C and 28°C; humidity 75% (c) Dry Forest- are found where rainfall is scanty between 75 to 100 cm; mean annual temp 23°C to 29°C; humidity 50 to 60% (d) Hill Forests are common in South India and Himalayas (e) Tidal Forest (Mangrove) are found in the coastal science plains of Ganges (Sundarbans), Manaradi, Godavari and Kerala and (f) Crastards (Filiph Himalaya and Deccan hills above 100m; lowardas in Punjab, Haryana, UP, Binar, NW Attantiand

Agriculture

India has two crop seasons. (a) Kharifi Rice Jowar, Bajra, Ragi, Maize, Cotton, Juta Sowing-Jun/Jul, Harvest-Sep, Got(b), Raci-Wheat, Barley, Peas, Rapessed, Mustaro, Cram. Sowing - Oct/Dec, Harvest - Acr, May.

riverine grasslands-found along rivers:

चीत्रुचित्री वित्रवास्त्री होते ।

National Emblem

The state emblem of India is an adaptation from the Sarnath Lion, capital of Acida the Emperor as preserved in the Sarnath Museum. The Government adopted the emblem on 26th Junuary, 1950, the day when

India became a Republic In the original of Samath Capital, there are four florit, standing back to back, mounted on an abacus with a frieze carrying sculpture in high relief of an elephant, a galloping horse, a bull and a fion separated by intervening wheek

(chakras) over a bell-shaped lotus. Carved out of a single block of polished sandstone, the Capital is crowned by the Wheel of the Law (Dharma Chakra).

In the state emblem adopted by the Government only three lions are visible, the fourth being hidden from view. The wheel appears in relief in the centre of the abacus with a bull on the right and a horse on the left and the outlines of the other wheels on the extreme right and left. The bell-shaped lotus has been omitted. The words, Satyameva Jayate from the Mundaka Upanishad meaning "Truth alone triumphs", are inscribed below the abacus in Devanagari script.

The National Flag

The National Flag is a horizontal tri-colour of deep saffron (Kesari) (representing 'courage and sacrifice') at the top, white ('peace and truth') in the middle and dark green ('faith and chivalry') at the bottom in equal proportion. The ratio of the width of the flag to its length is two to three. In the centre of white band is a wheel, in navy blue. Its design is that of the wheel (Chakra) which appears on the abacus of the Sarnath Lion Capital of Asoka. Its diameter approximates the width of the white band. It has 24 spokes.

The design of the National Flag was adopted by the Constituent Assembly of India on 22nd July, 1947. Its use and display are regulated by a code.

National Anthem

Rabindranath Tagore's song Jana-ganamana was adopted by the Constituent Assembly as the National Anthem of India on 24th Jan. 1950 and gave Vande Mataramthe national song equal honour. It was first sung on 27 Dec. 1911 at the Calcutta session of the INC. The first stanza (out of S stanzas) of the song forms the National

Anthem. Playing time of the full version of the national anthem is approximately 52 seconds. A shorter version consisting of the first and last lines of the stanza takes 20 seconds to play and it is played only on certain occasions.

Jana-gana-mana-adhinayaka jaya he
Bharata-bhagya-vidhata.
Pùnjaba-Sindhu-Gujarata-MarathaDravida-Utkala-Banga
Vindhya-Himachaka-Yamuna-Ganga
Uchchala-Jaladhi-taranga
Tava Subha name jage,
Tava subha asisa mange,
Gahe tava jaya-gatha,
Jana-gana-mangala-dayaka, jaya he
Bharata-bhagya-vidhata.
Jaya he, jaya he, jaya he,
Jaya jaya jaya, jaya he.

The following is Tagore's English rendering of the stanza:

Thou art the ruler of the minds of all people,
Dispenser of India's destiny.

Thy name rouses the hearts of the Punjab,
Sind, Gujarat and Maratha,
Of the Dravid and Orissa and Bengal.
It echoes in the hills of the Vindhyas and
Himalayas, mingles in the music of the
Jamuna and the Ganges and is chanted by
the waves of the Indian Sea.

They pray for the blessings and sing thy praise.
The saving of all people waits in thy hand,

The saving of all people waits in thy hand Thou dispenser of Indias destiny, Victory, victory, victory to thee.

National Song

The song Vande Mataram composed by Bankim-chandra Chatterji has an equal status with Jana-gana-mana. The first political occasion when it was sung was the 1896 session of the INC.

Vande Mataram, Sujalam, suphalam, malayaja shitalam, Shasyashyamalam, Mataram! Shubhrajyothsna pulakitayaminim,

Phullakusumita drumodola shebhinim. Suhasinim sumadhura bhashinim, Sukadam varadam, Mataram! English translation of the stanza rendered

by Sri Aurobindo (in Sri Aurobindo Birth Centenary Library Popular Edition 1972, vol. 8), is

> richly-watered, richly-fruited, coal with the winds of the south, dark with the crops of the harvests,

I bow to thee, Mother,

The Mother!

Her nights rejoicing in the glory of the moonlight, Her lands clothed beautifully with her trees

in flowering bloom, sweet of laughter, sweet speech.

The Mother, giver of boons, giver of bliss.

National Calendar At the time of independence, the Govt. of

India followed the Gregorian calendar based on the Christian era.

The National Government adopted the recommendation of the Calendar Reform

Committee that the Saka era be adopted as the basis of the National Calendar. The Saka year has the normal 365 days and begins with Chaitra as its first month. The days of the Saka calendar have a permanent corre-

spondence with the dates of the Gregorian

Calendar, Chaitra 1 falling on March 22 in a normal year and on March 21 in a Leap Year. The National Calendar commenced on Chaitra 1 Saka, 1879 corresponding to March 22, 1957 A.D.

The months of the National Calendar. with their days and the dates of the Gregorian Calendar corresponding to the first day of the Saka month are given below:

Saka	Gregorian
1 Chaitra 30/31 days	March 22/21
1 Vaishaka 31	April 21
1 Jyaistha 31	May 22
1 Asadha 31	June 22
1 Sravana 31	July 23
1 Bhadra 31	Aug. 23
1 Asvina 30	Sept. 23
1 Kartika 30	Oct. 23
1 Margasira 30	Nov. 22
1 Pausa 30	Dec. 22
1 Magha 30	Jan. 21

Indian Standard Time (IST)

1 Phalguna 30

India has only one standard time. India is 5.5 hours ahead of GMT/UTC, 4.5 hours behind Australian Eastern Standard Time and 10.5 hours ahead of Americal Eastern Standard Time.

Feb. 20

ज्यांचित्रक

epulationwise, India is second in the world. On May 11, 2000 India's population reached the one billion mark. The population increased to 1,027 million in

Much, 2001 (531.3 m. males and 495.7 m.

females). India accounts for a meagre 2.4%

of the world surface area of 135.79 million sq. km. but it supports 16.7% of the world population. It is estimated that at the present rate of growth (1.93% during 1991-2001) india will overtake China by 2050. Look at the growth of population from 1901 to 2001.

Population Over a Century			Andaman & Nicobar 0.03 Dadra & Nagar Haveli 0.02		0.03		
Years	Population			Dadra & Nagar Haveli			0.02
16013				an & Diu		0.02	0.01
1901	23,83,96,327			Lakshadweep 0.01			0.01
1911	25,20,93,390			ce: Census o	of India, 2	2001	
1921	25,13,	21,213	Rura	l and Urba	n Popul	lation Ton	1-2001
1931	27,89,	77,238			m r opa	100011 130	
1941	31,86,	60,580	Cens			ercentage	of (m.)
1951	36,10,	88,090		lation		total pop	ulation
1961	43,92,	34,771	Year	Rurai	Urban	Rurai	Urban
1971	54,81,	59,652	1901	213	26	89.2	10.8
1981		29,097	1911		26	89.7	10.3
1991		87,888	1921		28	88.8	11.2
2001	1,02,70,		1931		33	0.88	12.0
			1941		44	86.1	13.9
Source: Census of India,			1951		62	82.7	17.3
States and UnionTerrito	ries by Pop	ulation	1961		79	82.0	18.0
	t to total		1971		109	80.1	19.9
Territory population			1981		159	76.7	23.3
retricory population			1991		218	74.3	25.7
	2001	1991	2001		285.4	72.22	27.78
Uttar Pradesh	16.17	15.60					
Maharashtra	9.42	9.33	Citie	s/Urban A	gglomer	ations with	1 over
Bihar	8.07	7.62	a mi	llion peop	P		
West Bengal Andhra Pradesh	7.81	8.04	**				
Tamil Nadu	7.37 6.05	7.86 6.59	**	Urban Ag	glomer		
Madhya Pradesh	5.88	5.74		/City		<u>-</u>	ulation
Rajasthan	5.50	5.20	01	Greater Me	ımbai	16,	368,084
Karnataka	5.14	5,31	02	Kolkata		13,	216,546
Gujarat	4.93	4.88	03	Delhi			791,458
Orissa .	3.57	3.74	04	Chennai			424,624
Kerala	3.10	3.44	05	Bangalore			686,844
Jharkhand	.62	2.58	06	Hyderabad		•	533,640
Assam	2.59	2.64	07 08	Ahmedaba Pune	a	•	519,278 765 575
Punjab	2.37	2.40	09	Surat .			755,525 811,466
Haryana	2.05	1.95	10	Kanpur			690,486
Chhattisgarh	2.03	2.08	11	Jaipur*			324,319
Delhi	1.34	1.11	12	Lucknow		•	266,933
Jammu & Kashmir	0.98	0.92	13	Nagpur			122,965
Uttaranchal	0.83	0.84	14	Patna		1,	707,429
Himachal Pradesh	0.59	0.61	15	Indore			639,044
Tripura	0.31	0.33	16	Vadodara			492,398
Manipur	0.23	0.23	17	Bhopal			454,830
Meghalaya	0.22	0.21	18	Coimbator	e		446,034
Nagaland	0.19	0.14	19	Ludhiana*			395,053
Goa	0.13	0.14	20	Kochi			355,406
Arunachal Pradesh	0.11	0.10	· 21	Visakhapat	nam		329,472
Pondicherry	0.09	0.10	<i>22</i> 23	Agra Vasanasi			321,410 211 749
Chandigarh	0.09	0.08	23 24	Varanasi Madurai			211,749 194,665
Mizoram .	0.09	80.0	25	Meerut			167,399
Sikkim	0.05	0.05	26	Nashik			152,048
Manorama Yearbook 2007			-			•,	

		1951	18.33	18.33 27.16		
Sex Ratio: 1	1901-2001	1961	28.30	40.40	15.35	
Years	Sex Ratio	1971	34.45	45.96	21.97	
	Females per 1,000 males	1981	43.57	56.38	29.76	
1901	972	1991	52.21	64.13	39.29	
1911	964	2001	65.38	75.85	54.16	
1921	955	Source: C	ensus of Ind	ia, 2001		
			and the second			
פונע	त्रुवणप्रीव जर्गाण्याव	the state of the s		و د و د د د د د د د د د د د د د د د د د		
	opulation is said to be the melting		nese-Andam			
	rious races. Few, if any, can claim to any particular stock.		Meghalaya; Ja Trala; Kachari:			
Races (as per classical pattern): According		al Pradesh; Kl			
	Guha, the population of India is	Khonds-	Orissa; Kol-l	MP; Kotas-T	amil Nadu;	
	m 6 main ethnic groups: 1. Negrito;		nipur; Lepc			
	ustraloids or Austrics; 3. Mongol-		Tripura; Mei			
	editerranean or Dravidian; S. West-		ajasthan; M	•	_	
	cephals and; 6. Nordic Aryans.		j-Assam; Mu			
	ajor Tribes who inhabit in India		-Bihar; Oard			
	-Arunachal Pradesh, Assam; Adi,		ndamans; R			
	Arunachal Pradesh; Angami, Ao-		nd; Santhals-		_	
	; Badagas-Tamil Nadu; Baiga-MP,		nd; Sentinele:			
~ .			two serialities.	IOTTO TOUTHOU	i ca i vicobal	

1,117,200

1,101,804

1,090,171

1,064,357

1.054,981

1,049,579

1,011,327

1,011,152

1,002,160

107,881,836

Jabalpur

Asansol

Dhanbad

Faridabad*

Allahabad

Vijayawada

* Municipal Corporation **Rank in 2001

Rajasthan, Gujarat; Bhils-MP, Gujarat,

Rajasthan; Bhotias-UP (Garhwal and

Kumaon); Bhutias-Sikkim; Birhor-Bihar;

Bodos-Assam; Chenchus-AP, Orissa; Chutia-

Assam; Dangs-Gujarat; Gaddis-HP; Garos-

Meghabya; Conds-MP, Bihar, Orissa, AP; Great

Source: Census of India, 2001

Amritsar

Raikot

Total

lamshedpur

7

28

29

30

31

32

33

34

35

1931

1941

1951

1961

1971

1981

1991

2001

Years

Source: Census of India, 2001

Persons

Malés

Is.; Shompens-Great Nicobar Is.; Tagin-

Arunachal Pradesh; Todas-Tamil Nadu; Uralis-

Scheduled Castes & Tribes There are

13.82 crores people belonging to the Sched-

uled Castes in the country. This constitutes

Kerala; Zeliang-Nagaland.

Literacy Rate: 1951-2001

950

945

946

941

930

934

927

933

Females

	1971		19	1981		1991		2001	
Religious group	Number (m.)	Per cent	Number (m.)	Per cent	Number (m.)	Per cent	Number (m.)	Pe cen	
Hindus	453.4	82.7	549.7	82.6	672.6	82.41	827.5	80.4	
Muslims	61.4	11.2	75.6	11.4	95.2	11.67	138.2	13.42	
Christians	14.3	2.6	16.2	2.4	18.9	2.32	24.1	2.3	
Sikhs	10.4	1.9	13.1	2.0	16.3	1.99	19.2	1.84	
Buddhists	3.9	0.7	4.7	0.7	6.3	0.77	7.9	0.6	
lains	2.6	0.5	3.2	0.5	3.4	0.41	4.2	0.38	
Others	2.2	0.4	2.8	0.4	3.5	0.43	7.3	0.6	
Total	548.2	100.0	665.3	100.0	816.2	100.0	1028.4	100.0	

16.48% of the countryis total population. The States of UP, West Bengal, Bihar, Tamil Nadu and Andhra Pradesh account for more than 50% of the SC population, with UP and West Bengal having more than 20% of its population from the SCs. Members of the SC earn their livelihood through their own

labour, either on land belonging to other or in occupations like scavenging, flaying and tanning of leather. More than 3 quarter of the SC workers are engaged in primar occupation and the proportion of thosengaged in the tertiary sector is nearly hat the national average. In the field of literacy

Languages of India*- Number of Speakers

	Persons wi	o have written	the language	Perc	entage t	o tota	
Language	as	their mother t		population			
	1971	1981	1991	1971	1981	199	
Hindi	20,85,14,005	26,45,14,117	33,72,72,114	38.04	38.71	39.8	
Bengali	4,47,92,312	5,12,98,319	6,95,95,738	8.17	7.51	8.2	
Telugu	4,47,56,923	5,06,24,611	6,60,17,615	8.16	7.41	7.80	
Marathi	4,17,65,190	4,94,52,922	6,24,81,681	7.62	7.24	`7.38	
Tamil	3,76,90,106+	N.A	5,30,06,368	6.88	N.A	6.2	
Urdu	2,86,20,895	3,49,41,435	4,34,06,932	5.22	5.11	5.13	
Gujarati	2,58,65,012	3,30,63,267	4,06,73,814	4,72	4.84	4.8	
Kannada	2,17,10,649	2,56,97,146	3,27,53,676	3.96	3.76	3.87	
Malayalam	2,19,38,760	2,57,00,705	3,03,77,176	4.00	3.76	3.59	
Oriya	1,98,63,198	2,30,21,528	2,80,61,313	3.62	3.37	3.32	
Punjabi	1,41,08,443	1,96,11,199	2,33,78,744	2.57	2.87	2.76	
Assamese	89,59,558	N.A	1,30,79,696	1.63	N.A	1.5	
Sindhi	16,76,875	20,44,389	21,22,848	0.31	0.30	0.25	
Nepali	14,19,835	13,60,636	20,76,645	0.26	0.20	0.25	
Konkani	15,08,432	15,70,108	17,60,607	0.28	0.23	0.21	
Manipuri	7,91,714	9,01,407	12,70,216	0.14	0.13	0.15	
Kashmiri	24,95,487	31,76,975	N.A	0.46	0.46	N.	
Sanskrit	2,212	6,106	49,736	N	N	0.01	

N.A.: Not available; N:Negligible * Figures for 18 of the 22 Languages. Speakers of Bodo: 12,21,881 (1991 census). Dogri: 21,05,000 (1997 IMA); Santhali: 52,16,325 (1991 census); Maithili: 2,20,00,000 (1981 census).

literacy rate of SCs is around 37%. Among the SC women, more than three quarters are illiterate. Moreover, the drop out rate in formal education is very high. Such factors put the community at disadvantage.

as against the national average of 52%, the

disadvantage.

The population of Scheduled Tribes were 6.78 crore (i91 Census) constituting 8.08% of

the country's total population. Their literacy is just 29.60%. Literacy among the women is 18.19% compared to the national average of 39.29%.

Indian Languages

Although Hindi is the national language, India is believed to have 1652 mother tongues of which 33 are spoken by people numbering over a lakh. The officially recognised fan-

Turing the Constitution

the presidentship of Sachidananda Sinha, for undivided India. On July 1, 1947, the British parliament passed the 'Indian Independence Act', to divide in to India and Pakistan. With the partition of India the representatives of East Bengal, West Punjab, Sind and Baluchistan, N-W Frontier Province and the Sylhet Dist, of Assam, which joined Pakistan, ceased to be members of the Constituent Assembly. On August 14, 1947, the Constituent

ent Assembly met again as the Sovereign

The Constitution of India was drawn up

in accordance with the Cabinet Mission Plan) initially summoned on Dec. 9, 1946, under

by a Constituent Assembly (established

and South India.

Schedule Languages: A schedule—the 8th
Schedule—was added to the Constitution to
indicate all regional languages statutorily

guages are 22. In fact, English is widely

spoken and perhaps the link between North

recognised. The Schedule originally contained 14 languages as follows: (1) Assamese; (2) Bengali; (3) Gujarati; (4) Hindi; (5) Kannada; (6) Kashmiri; (7) Malayalam; (8) Marathi; (9) Oriya; (10) Punjabi; (11) Sanskrit; (12) Tamil; (13) Telugu; (14) Urdu. Sindhiwas added in 1962. By the 71st Amend-

ment to the Constitution, Konkani, Manipuri and Nepali were added to the list in 1992. In 2003, four more languages, were added: Bodo,Dogri, Maithili and Santhali. (92⁻⁴ Amendment)

1949. It came into effect on 26th Jan 1950.

Draft Constitution Drafting Committee

The work started with the presentation of the 'Objective Resolution' (the underlying ideology/philosophy) moved by Pandit Jawaharlal Nehru was adopted on Jan. 22.

Dr. Rajendra Prasad became the President of

the Assembly. A draft Constitution was published in February 1948, 284 out of 299 mem-

bers appended their signature to the Consti-

tution and finally adopted it on 26th Nov

1947. The committee for scrutinising the draft constitution and suggesting amendments was formed on August 29, 1947. The draft was readed by Feb. 1948. The Constituent Assembly

Constituent Assembly for the Dominion of readled by Feb. 1948. The Constituent Assembly India under the presidentship of met thrice to read the draft chuse-by-chuse in Sach-dananda Sinha. On the demise of Sinha, Nov. 1948, Oct. 1949 and Nov. 1949. After the

third reading, it was signed by the President and adopted on Nov. 26, 1949. In fact, a Committee on Rules of Procedure was in place as early as Dec. 1946. Chairman: Dr. B.R. Ambedkar.

Members: Alladi Krishnaswami Ayyar, N. Gopalaswami Ayyangar, Dr.K.M. Munshi, Syed Md. Saadulla, B.L. Mitter (was replaced by N. Madhava Rao) and D.P. Khaitan (was replaced by T.T. Krishnamachari).

The Indian Constitution closely follows the British Parliamentary model but differs from it in one important respect that is, the Constitution is supreme, not Parliament. So the Indian courts are vested with the authority to adjudicate on the constitutionality of any law passed by Parliament (ref. to 42 ëní Constitution Amendment Act).

The Constitution consists of the following: 1. The Preamble; 2. Parts 1 to XXII covering Articles 1 to 395; 3. Schedules 1 to 12 and 4. An Appendix. Part IX-The panchayats and Schedule XI (Article 243-G) have been incorporated under 73rd Constitution Amendment Act, 1992.

Amendments since 2000

- 80. (2000) deals with an alternative scheme for sharing taxes between the Union and the states.
- 81. (2000) provides that the unfilled vacancies of a year reserved for SC/ST kept for being filled up in a year as per Article 16, shall be considered separately for filling vacancies in the succeeding year and the previous list will not be considered for filling the 50% quota of the respective year.
- 82.(2000) provides that nothing in the article 355 shall prevent the state from making any provisions in favour of the members of SC/ST for relaxation in qualifying marks with respect to examination/job/promotion.
- 83. (2000) The Act amended Article 243M to provide that no reservation in Panchayats be made in favour of SC/ST in Arunachal Pradesh where the whole population is tribal.
- 84. (2001) The Act amended provisos to Articles 82 and 170(3) to readjust the territorial

- constituencies in the States, without altering the number of seats allotted to each State in House of People and Assemblies, including the S.C. &
- 85. (2001) Amended Article 16(4A) to provide for consequential seniority in promotion by virtue of rule of reservation for the Government servants belonging to the Scheduled Castes and the Scheduled Tribes.

S.T. constituencies 1991.

- 86. (2002) provides for (i) insertion of a new article 21A that the State shall provide free and compulsory education to all children of the age of six to fourteen years in such manner as the state may, by law, determine.
- 87. (2003) This Article provides that in Article 81 of the Constitution, in clause (3), in the proviso, in clause (ii), for the figures "1991", the figures "2001" shall be substituted.
- 88. (2003) This Article provides for the insertion of a new article 268A which states that taxes on services shall be levied by the Government of India and such tax shall be collected and appropriated by the government of India and the States in the manner provided in clause (2).
- 89, (2003) This Article provides for the amendment of Article 338 and insertion of a new article 338A which provides that there shall be a National Commission for ST.
- 90. (2003) This Amendment provided that for elections to the Legislative Assembly of the State of Assam, the representation of the Scheduled Tribes and non-Scheduled Tribes in the constituencies included in the Bodoland Territorial Areas District, so notified, and existing prior to the constitution of the Bodoland Territorial Areas District, shall be maintained.
- 91. (2003) This Article provides that the total number of Ministers, including the Prime Minister, in the Council of Ministers shall not exceed fifteen per cent of the total number of members of the House of the people.
- 92. (2003) This Article provides for the inclusion of four new languages, viz. Bodo, Dogri, Maithili and Santhali in the Eighth Schedule of the Constitution.

්ලේකාල්කාල්කාල්ලක්වේ මේක්ට්ට්ට්ට්ට්ර්ර්

Dr. B.A. Prakash

Head, Department of Economics, University of Kerala

The current developments of the Indian economy can be examined only in the context of the economic reforms implemented since 1991. The Structural Adjustment Reforms have been implemented in India in order to solve the unprecedented economic crisis of the Indian economy during early 1990s There had been a sharp decline in foreign exchange reserves, capital inflows through commercial borrowings and non-residents deposits. The country had been experiencing large and persistent macro economic imbalances, low productivity and low rate of return from investment. The fiscal deficit of the central and state governments reached an alarming level. There had been a steep increase in external and internal debt. The country began to experience a double digit inflation. The thrust of the reform process was to increase the efficiency and international competitiveness of industrial production, to utilize for this purpose foreign investment and foreign technology to a greater degree than in the past, to increase the productivity, to modernize the Financial sector and to attain a technological and competitive edge in the fast-changing global economy. During the last one and a half decades the performance of Indian economy was much better compared to the previous periods, in this contox, the anicle examines the record developments of the Indian economy.

L Economic Growth and Structural Change Economic Growth

Are sal economic growth is the indicator which reflects the performance of any

economy. Economic growth is calculated on the basis of increase in the Gross Domestic Product indicating the value of goods and services produced in an economy during a year and estimated either at current or constant prices. The sector-wise annual growth rate of Indian economy estimated at constant prices are given in Table 1. The table shows that the overall growth of the Indian economy was at a higher rate during the decade 1990's compared to the earlier decade. During 1990's the economy achieved a growth rate ranging between 6 to 7.3 percent during five years. During the present decade the economy achieved a higher rate since 2003-74.

An attemption and to evaluate the section wice growth rate of Indian activities during the post-reform period. It is found that the primary sector comprising agriculture, forestry, fishing, mining and quarrying regionared very low or negative growth rate in four years during the decade 1990's. During the new miller runn, the sector also registered a region or very low rate of growth in 2000-01 and 2002-03. The major factor which dean times the growth rate of the primary seriou was the availability of accounts rainfall.

The grown of the peton dary declar rooms prong manufacturing conduction, section by, gap and water account out no worker of ingren growth at expected curry, the conduction country of the peton the declaration for the conduction of the peton during the viewer, the declaration of the peton during the lifts had to the present decide was detained.

Compared to the primary and secondary sectors the tertiary sector comprising trade, hotels, transport and communications, financing, insurance, real estate and business services, public administration and defence etc. registered a higher growth rate during the post-reform period (Table 1). During the last five years the sector witnessed an average rate of growth of more than 7 percent. Thus, a review of sector-wise growth rate of Indian economy shows that the economic reforms have accelerated a higher rate of growth of tertiary sector during the post-reform period compared to other sectors (Table 1).

Structural change

The structural change which denotes the changes in the share of primary, secondary and tertiary sectors to the total Gross Domestic Product, gives an idea about the broad changes that have been taking place in an economy. The broad changes in the structure of Indian economy during the post-reform period is shown in Table 2. A major change is the decline in the importance of primary sector comprising agriculture and allied activities. The share of the sector fell from 34.93 percent in 1991 to 22.97 percent in 2004-05. In the case of the secondary sector, the sect oral share registered a marginal decline during the post-reform period. On the other hand, the share of the tertiary sector had witnessed a continuous increase. Currently, 53.22 percent of the national income is produced in the tertiary sector. Thus, the economic reforms had initiated a process of structural change favouring the rapid growth of tertiary activities.

Economic Indicators

Based on the selected economic indicators, an attempt is made to provide the broad changes in national income, per capita income, industrial production, agricultural production, gross domestic capital formation and plan outlay during the first half of the present decade. Table 3 gives the selected economic indicators. The GDP at constant prices has increased from Rs. 18,70,387 crore in 2001 to Rs. 23,93,671 crore in 2004-05. Percapita income at constant prices increased from Rs. 16,223 to Rs. 19,699 during the period. The index of industrial production showed a steady rise during the period. On the other hand, the index of agriculture production registered a fall during two years. The gross domestic savings registered a steady increase during this period. The annual plan outlay also registered a rise and Rs. 2,69,267 crore was proposed as the annual plan outlay for 2004-05.

Table 4 presents the key indicators of output such as food grains, finished steel, cement, coal, crude oil and electricity generated. During the first half of the present decade except food grains, all other outputs have registered an increase.

Health indicators

Another issue is the impact of the economic reforms on the health status of the people. From table 5 we get the broad changes in the health status of the people. During the decade 1990's there has been a decline in birth rate, death rate and fertility rates. The maternal mortality ratio, infant mortality rate, child mortality rate also registered a decline. Another notable development was the Increase in the life expectancy of population. Thus, the above facts suggest that the economic reforms have helped to improve the health status of the people to some extent.

II. Agriculture

Agriculture and allied sectors provide more than half of the total employment and nearly one-fourth of the national income (GDP). According to the NSSO survey 2004, 66 percent of the usually employed males and 84 percent of the usually employed females were engaged in agriculture sector in rural

III Industry, Infrastructure, and services

During the beginning of the present millennium the industrial production remained very low especially in 2001-02 (Table 12). However, the industrial sector was able to achieve a recovery in production due to higher rate of growth of manufacturing and mining and quarrying activities. On the other hand, the growth of electricity production remained at a lower rate. The industries which witnessed rapid development during 2004-05 are beverages and tobacco products, textile products, paper and paper products, non electrical machinery, transport equipments and other manufacturing industries. Some of the industries which recorded higher rates of growth are automobile industries, textiles. gems and jewellery. The latest data on industrial production suggest that the manufacturing sector has recorded a higher growth in 2005-06 compared to the previous year. It is estimated that the manufacturing sector has recorded a growth of 9 percent in 2005-06 (April-February). It accounted for 93 percent of the total industrial sector growth. The important industries which registered an acceleration in growth during 2005-06 are other manufacturing industries, textile products. beverages and tobacco related products, basic metal and alloy, transport equipment etc. (Table 13).

On the other hand, the industries which experienced deceleration in growth are machinery and equipment other than transport, chemical and chemical products, jute and other fibres, paper and paper products etc. During the above period the industries which witnessed a negative growth are metal products, leather products and wood products.

Infrastructure

A review of the growth of physical output in infrastructure sectors indicates a moderate growth between 2001-02 to 2004-05 (Table 14). In the case of coal production and electricity generation the growth rate was low or moderate. The trends in crude oil production remained at low level. However, the production of steel and cement remain at moderate level. In the communication sector, rapid growth was recorded in the new telephone connections especially mobile phones. The number of mobile phones has increased from 6.54 lakh in March 2002 to 78.08 lakh in September 2005 (Table 15). It may be pointed out that basic infrastructure items like electricity, coal and petroleum products have not recorded higher levels required for attaining higher output in other sectors.

Services

Table 16 shows the indicators of the service sector during the last two years. During 2004-05 the indicators which recorded a higher growth are tourist arrivals, commercial vehicle production, new cell phone connections, import of cargo handled in civil aviation, passengers handled in domestic terminal and upgradation of highways. Growth in bank deposits, sustained acceleration in non-food credit, an increased export of information technology and enabled services have also contributed to the growth of service sector. But the tempo of the growth was not continued during 2005-06. The table shows that the majority of the indicators recorded a decline in the year 2005-06.

IV. External Sector

A notable achievement of the economic reforms has been the steady and sustained improvement of the Balance Of Payment (BOP) positions of India till 2003-04. Table 17 gives the summary of the BOP situation between 2000-01 to 2004-05. The recent developments in the BOP situation are given below.

Compared to 2003-04 there has been a deterioration in BOP situation in 2004-05 due

to the following factors. While the value of exports increased by 24 percent the import recorded growth rate of 48 percent resulting in an increase in trade balance. A major factor contributed to the increase in the imports was contributing the increase in world oil prices. The growth in the value of Petroleum Oil and Lubricants (POL) products was 45 percent during the year. There has been a decline in the invisibles, especially private transfers. All these have contributed to the deficit of current account in 2004-05. This marked a significant departure in the structural composition of India's BOP, with current account after three consecutive years of surplus turning into deficit. These developments can be con-

an increase in the external assistance and also commercial borrowings. However, there has been some improvement in capital account due to foreign investment flows and other financial flows to the country.

India's foreign trade data recently released by Ministry of Commerce and Industry indicate sustained high growth in merchandise exports and imports during 2005-06 (RBI Bulletin, May 2006). While the value of the exports in US \$ increased by 25 percent the

sidered as the indication of a deterioration in

BOP situation. During the year there has been

The import of POL increased by 46.9 percent. The average crude oil price (Indian basket) during 2005-06 stood at US \$ 55.4, higher by 42.4 percent than a year ago. The non-oil imports recorded a growth of 26.8 percent during 2005-06. And the trade deficit stood at US \$ 39.6 billion during 2005-06, higher by 52.7 percent than the previous year. The developments in the export and import indicate a further deterioration in the BOP situa-

import recorded the growth of 31.7 percent.

Altend in the growth of foreign exchange teserves will give us an idea about the stability the country achieved in the external sector. If efereign exchange reserves comprise gold,

tion during 2005-06.

change reserves between 1990-91 and November 2005. The growth in foreign exchange reserves is mainly due to the growth in foreign currency assets. The total foreign exchange reserves of the country increased from \$5,834 million in 1990-91 to \$42,281 million in 2000-01. By the year 2005, it further increased to \$1,42,821 million. There has been a sustained increase in foreign exchange reserves during the first half of the present decade.

Commodity Composition of exports and imports

India is a major exporter and importer of a number of products. Table 19 gives the commodity composition of exports. The three

Reserve Tranche Position in IMF, Special Draw-

ing Rights (SDR) and foreign currency assets.

Table 18 gives the trend in the foreign ex-

number of products. Table 19 gives the commodity composition of exports. The three major categories of products exported from India are primary products, manufactured goods and petroleum and crude products. Primary products comprises of agriculture and allied, ores and minerals account for 16 percent of the total value of exports. Engineering goods, gems and jewellery, textile items, chemical and related products are the major industrial products exported from India. Nearly 72 percent of the exports are manufactured products. The structure of exports suggests that India has reached a stage of an industrially developed country, exporting industrial products. Table 20 gives the principal commodities

32 percent of the value of imports. Capital goods and gold and silver account for another 20 percent of the value of imports. The other important items of imports are pearls and precious stones, electronic goods, chemicals, edible oils, coke, coal and metaliferrous ores. POL, capital goods and ores are the items having a highest increase in imports recently.

imported to India. POL account for nearly

V. Inflation, Unemployment and Poverty

Inflation the whole sale price index, which reflects changes in the price of 447 commodities covering all traded goods in primary sector, fuel, power and manufacturing sector is the principal indicator of inflation. Table 21 gives the trends in inflation during the postreform period. During the early years of the post-reform period, Indian economy had witnessed an acceleration of inflationary trends. During the first half of the 1990's, the annual average rate of inflation was more than 10 percent. However, the rate of inflation registered a fall during the second half of the 1990s and the first half of the present decade. The increase in prices of fuel is a major cause for the increase in inflation in recent years.

Unemployment

We also present the trends in unemployment based on recent estimates of National Sample Survey Organisation (NSSO). Here the definition used to measure unemployment is Current Daily Status definition (CDS). The CDS indicates the unemployment status of a person without gainful employment and seeking employment during all the seven days in a week. The rate of unemployment is the ratio of unemployed days per week to the total labour supply per week (working plus seeking plus available days). According to NSSO survey, the unemployment rate for males and females both in rural and urban areas has recorded an increase between 1993-94 and 2004 (Table 22). Currently 9 per cent of the males and 9.3 percent of female labour force is unemployed in rural areas. The corresponding rates for urban areas are 8.1 percent and 11.7 percent.

Poverty

Incidence of poverty is estimated on the basis of poverty line. The poverty line serves as a cut-off line for separating the poor from the non-poor, given the size distribution of

population by per capita consumer expenditure classes. Population with per capita consumer expenditure levels below the level defined by the poverty line is counted as poor. The Expert Group of Planning Commission (1993) has recommended a monthly per capita total expenditure, of Rs. 115.43 (rural) and 165.58 (urban) in 1987-88 as the poverty line for the country as a whole. At this level of percapita total expenditure it-is expected that a person will get the required per capita daily intake of 2400 calories in rural areas and 2100 calories in urban areas. Table 23 shows the poverty rated and the total number of poor persons in India. The date indicates that there has been a decline in poverty between 1993-94 and 1999-2000.

VI. Where do we stand?

During the recent years, Indian economy recorded a mixed performance of positive as well as negative developments. The growth rates of secondary and tertiary sectors were better since 2002-03. But the agricultural sector recorded a low or negative growth rate. A review of the key indicators of output revealed that except foodgrains, all other output have recorded an increase during the recent years. A unfavourable development is the low rate of growth of physical output in infrastructure especially electricity, coal and petroleum products. In the case of services the growth of major items of services recorded a marginal decline in 2005-06. A disturbing development is the deterioration in the overall BOP situation in recent years. The hike in oil prices, steep increase in exports and decline in the inflow of invisibles have led to a deficit in current account. However, India has a comfortable foreign exchange reserve situation. Another negative development is the increase in the rate of unemployment both in urban and rural areas. This indicates that the economic reforms have not succeeded in generating more jobs for the unemployed labour force.

Table 1 Annual Growth Rates of Gross Domestic Product (Per Cent) Agriculture | Manufacturing Trade Financing Public Cross Year administration domestic construction hotels, Insurance, real forestry & electricity transport & & defence product at fishing estate gas and water commu and business and other factor mining and services supply services cost (2to6) quarrying nication At 1993-94 prices 4.1 5.6 7.7 1990-91 4.6 7.4 4.9 12.0 2.6 1.3 1991-92 -1.1 -1.0 2.5 5.9 4.6 5.1 5.6 1992-93 5.4 4.3 3.9 5.6 7.1 13.4 3.5 5.9 1993-94 5.6 7.3 5.3 10.3 10.4 3.2 1994-95 -0.3 12.3 13.3 8.2 7.9 7.3 1995-96 7.0 6.3 7.8 1996-97 8.8 7.7 7.8 11.7 4.8 1997-98 -1.5 3.8 7.8 11.6 7.4 10.4 6.5 5.9 3.8 7.7 1998-99 0.6 4.9 8.5 10.6 12.2 6.1 1999-2000 New Series at 1999-2000 prices 4.1 4.7 2000-01 0.2 4.4 6.7 7.1 2.8 2001-02 5.8 9.2 7.3 3.9 5.8 6 Table 2 Sector-wise change of Gross Domestic Product Year Primary Secondary Tertiary Towl 1990-91 34.93 24.49 40.58 100.00 1999-2000** 27.65 23.09 49.25 100.00 2004-05** 22.97 53.22 23.80 100.00 * Based on 1993-94 pinces ** Based on 1999-2000 prices Source: Economic Survey, 2005-06. Table 3 Selected Economic Indicators 1990-91 2000-01 2001-02 2002-03 2004-05 2003-04 GDP at factor cost: \$ i. At current prices 5,10,954 19,30,184 20,97,446 22,55,574 25,43,396" 28,43,8979 (Rs. crore)

19,78,055 20,52,586

17,281

176.6

16.910

167.0

23,93,6719

19,6490

204.8

22,26,041'

18,517

189.0

a. At constant prices

national product at constant pricess (Fasces) Index of Industrial

(Rs. crote) i er capita net

skeduction (Base 1993-94-100) 6,92,871

7,321

91.6

18,70,387

16,223

162.6

P. From	sional; Q: Quick estin	nates; A: Advance	Estimates	Sou	rce. Economic Sur	vey, 2005-06
2005-0	6 (A) 2.3	9.0	11.1	9.5	7.9	8.1
2004-0	5 (Q) 1.2	8.9	10.6	9.2	9.2	7.5
2003-0	4 (P) 9.6	7.9	12.0	4.5	5.4	8.5
2002-0	3 -5.6	6.8	9.1	8.0	3.8	3.8

Index of agricultural production (Bae: trien- niumending 1981-82	148.4	165.7	178.8	150.4	181.0	179.2
Gross dometic capital formation\$ (as per cent of GDP)	26.3	24.2	23.0	25.3	27.2°	30.19
Gross domestic savings\$ (as percent of GDP)	23.1	23.5	23.6	26.5	28.9°	29.10
Plan Outlay (Rs. crore)	58,369	1,85,737	1,86,315		2,43,550(RE)	2,69,267(BE)
C Drive to 2000 01 based of	n 1993,94 c	eries others o	n new series 1	1999-2000.		

P: Provisional; Q: Quick; RE: Revised Estimate: BE: Budget estimate					Source: Economic Survey, 2005-0		
		Table 4					
	Key In	dicators of	Output				
	1990-91	2000-01	2001-02	2002-03	2003-04	2004-05	
a Foodgrains	176.4	196.8	212.9	174.8	213.5	204.6	
(million tonnes)	ł	{			l	1	
b. Finished Steel	13.5	30.3	31.1	33.4	36.9	39.	
(million tonnes)££	1	ĺ	1	1	1	i	
c. Cement	48.8	97.6	106.9	116.3	123.5	133.	
(million tonnes)	1	1	}	1	1	}	
d. Coal (including	225.5	332.6	352.6	367.2	389.3	412.	
lignite) (million tonnes)			})	į	}	
e. Crude oil	33.0	32.4	32.0	33.0	33.4	34.	
(million tonnes)	j			} .	Ì	į.	
f. Electricity generated	264.3	499.5	517.4	532.7	565.1	608.	
(utilities only)	}	1	}	}	ļ	1	
Billion KWH)		1	1		l		

EE including secondary producers Source: Economic Survey, 2005-06

				ı a	Dιe	Э					
						~		- ^^	-	٠.	•
Sel	ec	tec	ł١	ne	alth	١i	nc	lica	tr	ים	c

	Science ficular indicat	.013		
	Parameter	1981	1991	Current level
1.	Crude birth rate (Per 1,000 population)	33.9	29.5	24.8 (2003)
2.	Crude death rate (Per 1,000 population)	12.5	9.8	8.0 (2003)
3.	Total fertility rate (TFR) (Per woman)	4.5	3.6	3.0 (2001)
4.	Maternal mortality ratio (MMR) (Per 1,00,000 live births)	NA.	437	407 (1998)
		}	(1992-93)	1
5.	Infant mortality rate (IMR) (Per 1,000 live births)	110	80	60 (2003)
6.	Child (0-4) mortality rate (Per 1,000 children)	41.2	26.5	17.8 (2002)
7.	Couple protection rate (per cent)*	22.8	44.1	48.2
		ļ	}	(1998-99)
8.	Life expectancy at birth	1	l	
	8.1 Male	54.1	59.7	63.9
	1	ĺ		(2003.06)

66.9 (2001-06)

Note: The dates in the brackets indicate years for which information is available NA: Not Available

Source: Economic Survey, 2005-06

8.2 Female

Foodgrains production

Table 6

•	•	(million tonnes)			
2000-01	2001-02	2002-03	2003-04	2004-05*	
85.0	93.3	71.8	88.3	85.3	
69.7	72.8	65.8	72.1	72.0	
31.1	33.4	26.1	38.1	33.9	
11.1	13.4	11.1	14.9	13.4	

Wheat	69.7	72.8	65.8	72.1	72.0
Coarse Cereals	31.1	33.4	26.1	38.1	33.9
Pulses	11.1	13.4	11.1	14.9	13.4
Foodgrains				1	ì
(1)	Kharif	102.1	112.1	87.2	116.9
103.3					
ıì.	Rabi	94.7	100.8	87.6	96.6
101.3	1 1				
Total (1) + (11)	196.8	212.9	174.8	213.5	204.6

^{* 4}th advance estimates Source: Economic Survey, 2005-06

Crop/Year

Rice

		Table 7		
Produc	tion of Foodgra	ins in three	largest producing	states
	١	rear: 2004-05 (P)	
		•	1	(Production Million Tonnes)
	States	Production	Per cent Share of	Cumulative per cent
		* * * * * * * * * * * * * * * * * * *	Production to All India	of Production
	West Bengal	14.91	17.48	17.48
Rice	Uttar Pradesh	10.88	12.75	30.23
	Punjab	10.44	12.24	42.47
* ~ * · · · · · · · · · · · · · · · · ·	Uttar Pradesh	24.78	34.42	34.42
Wheat	Punjab	14.87	20.65	55.07
! !	Haryana	9.16	12.72	67.79
1	Karnataka	2.38	16.83	16.83
Maire	Andhra Pradesh	1.92	13.58	30.41
:	Uttar Pradesh	1.49	10.54	40.95
	Maharashtra	6.02	17.75	17.75
Total Coarse Creeks	Kamataka	5 77	1701	24.76

	Y	ear: 2004-05 (P)	(Production M. Lilion Tonnes
	States	Production	Per cent Share of Production to All India	Cumulative per cent of Production
	West Bengal	14.91	17.48	17.48
Rice	Uttar Pradesh	10.88	12.75	30.23
	Punjab	10.44	12.24	42.47
A Ph. P 4 Transcription and participation	Uttar Pradesh	24.78	34.42	34.42
Wheat	Punjab	14.87	20.65	55.07
	Haryana	9.16	12.72	67.79
e e emplea e e en contra des como empleo empleo empleo.	Karnataka	2.38	16.83	16.83
Maize	Andhra Pradesh	1.92	13.58	30.41
	Uttar Pradesh	1.49	10.54	40.95
	Maharashtra	6.02	17.75	17.75
Total Coane Cereals	Karnataka	5.77	17.01	34.76
•	Rajasthan	4.88	14.39	49.15
The Processing of the angular and assess	Madhya Pradesh	3.43	25.64	25.64
Total Polices	Uttar Pradesh	2.36	17.64	43.27
	Maharasthra	1.70	12.71	55.98
	Uttar Pradesh	41,46	20.26	20.26
, Total foodgrains	Punjab	25.84	12.63	32.89
a company and a second	West Bengal	16.25	7.94	40.83
Scorce, Economic Sun	ey, 2005-06			

Jane - March March Street Company Company () Name of the			Table 8	Language special speci		مغرباده ماهجاد ديميادي ا
	Co	mmercial	crops: pr	oduction		
rop/Year		2000-01	2001-02	2002-03	2003-04	2004-056
iroundnut		6.4	7.0	4.1	8.2	7.
apeseed & Mustard	1	4.2	5.1	3. <i>9</i>	6.2	8.
	}	5.3	6.0	4.7	7.9	7.
oyabean Other oilseeds	}	2.5	2.6	2.1	3.0	3.
otal nine oilseeds	}	18.4	20.7	14.8	25.3	26.
otal nine oiiseeus	ļ	9,5	10.0	8.6	13.9	17.
ite & Mesta**	}	10.6	11.7	11.3	11.2	10.
ndatcaue	1	296.0	297.2	287.4	237.3	232.
@ 4 th advance estimat	es			30010	e: Economic Si	
		,	Table 9			
المادة بالماديسيسيدي ، يوثر A	معدد ساسم	production	THE PARTY WALLS	horticultura	crops	
^	Jea and	productio.		Aillion hectare,		illion tonne
	. 300	3-04	200	4-05*	2005	-06
Crops	1	oduction		oduction	Area Pro	
	4.8	49.2	5.0	53.1	5.2	57.6
F-vite .	1 4.0		6.1	91.6	6.3	99.4
Fruits Vocatables	5.9	84.8				37.7
Vegetables	5.9	84.8 3.8	2.5	4.1	2.6	4.4
Vegetables Spices	2.4	84.8 3.8 13.1			2.6 3.3	4.4 15.3
Vegetables Spices Plantation Crops	1	3.8	2.5	4.1	3.3 0.1	4.4 15.3 0.2
Vegetables Spices Plantation Crops Flowers	2.4 3.1	3.8 13.1	2.5	4.1 14.1	3.3	4.4 15.3 0.2 1.1
Vegetables Spices Plantation Crops	2.4 3.1 0.1	3.8 13.1 0.2	2.5 3.2 0.1	4.1 14.1 0.2	3.3 0.1	4.4 15.3 0.2
Vegetables Spices Plantation Crops Flowers Others	2.4 3.1 0.1 0.9 17.2	3.8 13.1 0.2 0.9 152.0	2.5 3.2 0.1 0.9 17.8	4.1 14.1 0.2 1.0	3.3 0.1 1.0	4.4 15.3 0.2 1.1
Vegetables Spices Plantation Crops Flowers Others Total	2.4 3.1 0.1 0.9 17.2	3.8 13.1 0.2 0.9 152.0	2.5 3.2 0.1 0.9 17.8	4.1 14.1 0.2 1.0	3.3 0.1 1.0	4.4 15.3 0.2 1.1
Vegetables Spices Plantation Crops Flowers Others Total	2.4 3.1 0.1 0.9 17.2	3.8 13.1 0.2 0.9 152.0 Board. * Estin	2.5 3.2 0.1 0.9 17.8	4.1 14.1 0.2 1.0 164.1	3.3 0.1 1.0 18.6	4.4 15.3 0.2 1.1
Vegetables Spices Plantation Crops Flowers Others Total	2.4 3.1 0.1 0.9 17.2	3.8 13.1 0.2 0.9 152.0 Board. * Estin	2.5 3.2 0.1 0.9 17.8	4.1 14.1 0.2 1.0	3.3 0.1 1.0 18.6	4.4 15.3 0.2 1.1

Source:	National Horticulture Bo	oard. * Estimated			
<u></u>		Tab	e 10		
1	Produc	tion and perca	pita availability o	f milk	
Year	Milk Production	Per capita	2001-02	84.4	225
	(Million Tonnes)	availability	2002-03	86.2	· 230
{	((gms/day)	2003-04	88.1	231
 		(3/ 2-//	2004-05	90.7	232

1	1990-91 2000-01	53.9 80.6	176 220		90.7 Department of Animal Dairying and Fisheries	
		-	Table	e 11	,	

Table 11

1.9 Index Numbers of Agricultural Production

(Base:Triennium ending 1981-82 = 100

2004-05 2003-04 2002-03 Weight 2000-01 2001-02 164.7 A. Foodgrains 172.1 62.92 158.4 172.5 140.4 169.6

a. Cereals 178.5 144.9 175.7 54.98 165.5 171.5 Rice 29,74 177.5 170.9 187.7 144.4 204.6 204.9 Wheat

117.3

14.45 198.0 206.7 186.8 Coarse Cereals 131.8 10.79 107.2 115.2 90.0

						132.3
	7.94	109.3	131.3	109.5	147.1	131.3
Pulses	3.07	93.7	133.1	103.0	140.7	203.7
Gram	37.08	178.2	189.5	167.2	196.0	242.5
on-foodgrains	12.64	176.5	195.1	150.8	231.6	117.1
. Oilseeds Total	5.60	106.8	117.2	68.7	136.4	409.5
Groundnut	2.41	205.2	249.1	190.1	303.8	211.8
Rapeseed and Mustard	5.09	126.6	133.8	117.5	177.3	226.1
, Fibres	4.37	126.6	132.9	114.7	184.4	149.2
Cotton	0.55	144.2	163.8	159.0	159.4	49.9
jute	0.14	72.5	64.0	58.6	54.3	208.9
Mesta	2.29	209.0	208.9	208.9	208.9	151.1
: Plantation Crops	1.46	151.3	151.1	151.1	151.1	216.3
Tea	0.44	216.8	216.3	216.3	216.3	416.8
Colfee	0.39	416.1	416.8	416.8	416.8	410.0
Rubber	0.55	1	1		1550	148.7
d. Others	8.11	189.4	190.2	183.9	151.9	102.4
Sugarcane	1.12	71.8	113.6	102.4	102.4	248.7
Tobacco	2.09	241.5	256.9	248.7		179.2
Potato All Commodities	100.00	165.7	178.8	150.4	181.0	1 1/2.2
		<u></u>				
ource: Economic Survey 2	003-00					
. The second second second second second second second second second second second second second second second		T. L.				
			le 12		•	- 1
Aı	nnual gro	wth rate o	f industria	i product	ion	
•••	(Based or	i the index o	of industrial p	roduction)		(DN
	(00300 5	Base 19	93-94=100			(Percent)
		Mining	Mar	iufa	Electri	Overall
Period		Quarrying	ctu	rina	city	İ
	α,	Quarrying	1			100.00
Weights		10.47	1	0.36	10.17	13.0
1995-96	1	9.7	1	14.1	8.1	5.0
2000-01		2.8	1	5.3	4.0	2.7
2001-02	1	1.2	1	2.9	3.1	5.7
2002-2003	j	5.8	į	6.0	3.2	!
2003-04		5.2	1	7.4	5.1	7.0
2004-05	1	4.4	\	9.2	5.2	8.4
2004-05#		5.1	9.2		6.4	8.6
1 2005-06#	Ì	0.4		8.9	4.8	7.9
# (April-December)						
Source Economic Sun	ey 2005-06					
1			ble 13	_		_
Doefe	mance	of manu	facturing	Industry	Groups:	
, rent	^	005 06 /	Aneil Cab		· F	
The state of the s		003-00 (April-Feb	- uaiy)		10.00
, 9145.						ltem Percent
B special in a security of any manufacturing confidence of						
Acceleration in Cr	owth					
1. Other Manufact	unng indus	tries			•	24.3
2 Textiles Products including apparels				;	3.51	
3 Exercises, tobacco and related products			1	14.8		
3 4 Basic Metal and					ļ	14.7
• •	•				ı	

5.	Transport equipment and parts	12.6			
6.	Non-metallic mineral products	10.2			
7.	Cotton Textiles	9.4			
8.	Rubber, Plastic, Petroleum and Coal products	4.3			
9.	Food Products	0.7			
		<u> </u>			
11.	Deceleration in Growth				
1.	Machinery and equipment other than transport equipment	11.7			
2.	Chemicals and chemical products	8.5			
3.	lute and other vegetable fibre	1.0			
4.	Paper and paper produces and printing publishing and allied activities	0.6			
5.	Wool, silk and man made fibre textiles	0.5			
}	,				
m	Negative Growth				
1.	Metal products and parts (except machinery and equipment)	-1.3			
2.	Leather and leather and fur products	-5.0			
3.	Wood and wood products, furniture and fixtures	-5.6			
Sou	rce: RBI, Bulletin, May 2006				

	Table 14			
Trends in growth of phys	ical output infrast	ructure sect	ors (in per c	ent)
tems	2001-02	2002-03	2003-04	2004-0
I, Energy				
1. Coal production	4.5	4.2	5.8	3.9
2. Electricity generated by utilities	3.1	3.2	5.0	5.
a. Hydel	-0.7	⁻ -13.7	15.6	14.
b. Thermal (including nuclear)3. Petroleum	2.5	6.2	3.6	3.
 Crude oil production 	-1.2	3.2	1.0	1.
 Refinery throughout 	3.7	4.9	8.2	4.
II. Steel	4.6	9.9	9.8	6.
III. Cement 7.4	8.8	6.1	6.6	
Average growth of I to III	3.5	5.5	6.2	5.
IV. Transport and Communications				
 Railway revenue-earning goods t 	raffic 4.0	5.3	7.5	8.
2. Cargo handled at major ports	2.3	9.0	10.0	11.
3. Telecom New telephone connect	tions 23,9	21.5	40.1	28.
4. Civil Aviation	ļ		į	
a. Cargo handled	\	ļ	1	1
i. Export cargo handled	4.1	13.3	1.0	12.
ii. Import cargo handledb. Passengers handled at	-1.0	18.6	13.4	24.
i. International Terminals				}
ii. Domestic Terminals	-5.0	4.8	6.5	14.
Source: Economic Survey, 2005-06	-5.7	9.6	13.1	23.

Table 15 Growth of telephones over the years Year Fixed in million Per cent Mobile in million si. Per cent PSUs Pvt. Total No. of PSUs **PSUs** P√t. Total of PSUs 37.90 2001-02 0.52 38.42 98.65 ١ 0.26 6.28 6 54 3 98 40.53 1.10 41.63 2. 2002-03 97.36 2.64 10.35 12.99 20.32 40.49 2.36 42.85 2003-04 94.49 3. 5.99 27.70 33.69 17.78 41.11 5.09 46.20 4. 2004-05 88.98 10.97 41.20 | 52.17 21.03 2005-06 40.70 7.01 47.71 85.31 61.60 5 16.48 78.08 21.11 (first 9 months) PSUs & Public Sector units Source: Economic Survey 2005-06 Table 16 Indicators of Service Sector Activity Growth rates in per cent Sub-Sector April-January April-January 2004-05 2005-06 Tourist arrivals (April-February) 23.7 11.7 Commercial vehicles production (April-Dec.) 32.3 9.7 Railway revenue earning freight traffic 7.8 10.4 New cell phone connections 17.1 68.0 Cargo handled at major ports 10.8 11.7 Civil aviation 7.3 a. Export cargo handled 124 13.5 b. Import cargo handled 28.6 Passengers handled at international terminals 15.6 12.8 d. Passengers handled at domestic terminals 22.9 25.3 Roads: Upgradation of Highways 19.0 20.9 Cement (April-February) 6.6 11.9 Steel (April-February) 7.5 5.3 Aggregate deposits (end-March, year-on-year) 16.9 14.8 Non-food credit (end-March, year-on-year) 28.8 30.8 Central Covernment expenditure (April-February) 1.7 5.6 Source: RBI Bulletin, May, 2006 Table 17

Balance of Payments: Summary

2000-01

45,452

57,912

15,650

-12,460

9,794

1,692

-5,004

12,854

252

1. Exports

2. Imports

of which POL

trasbles (net)

Pid. transfers

Orical transfers

Non-factor services

3. Trade balance

Secrete

(In US \$ Million)

53,774

64,464

17,640

-10,690

170,35

3,643

-3,446

16,387

451

2001-02 | 2002-03

44,703

56,277

14,000

-11,574

14,974

3,324

-4,206

15,398

458

2004-05

1,18,729

82,150

29,844

-36,629

31,229

14,199

-3,814

20,253

591

12003-04

66,285

80,003

20,569

-13,718

27,801

10,144

-4,505

21,608

554

i. FDI (net)		3,272	4,73		3,217	2,388	3,240	
ii, Flis		1,847	1,50		377	10,918	8,280	
iii. Euro equities & c	others	743	44		567	438	627	
12. Other flows (net)+		-3,739	و۔ {		8,795	6,111	13,830	
13. Capital account total	al (net)	8,509	8,35		10,640	17,338	31,559	
14. Reserve use (-increa	se)	-5,842	-11,75	7 -	16,985	-31,421	-26,159	
Source: Economic Surve								
	<u> </u>							
		Table 1	8		5	-		
	Foreign	Exchang			***** / .*		}	
	Foleigi	· caciality	,			(U	S \$ Million)	
Year	Gold	RTP		SDRs	For	eign	Total	
			- 1		Curre	ency	ť	
			1		A.	ssets		
1990-91	3,496	-	$\neg \vdash$	102	2,	236	5,834	
1995-96	4561	-	ļ	82	17,	,044	21,687	
2000-01	2725	-	-	2		,554	42,281	
2001-02	3,047	-	1	10		,049	54,106	
2002-03	3,534	672	- 1	4 71,890		,890	75,428*	
2003-04	4,198	1,311	-	2 1,07,448		,448	1,12,959*	
2004-05	4,500	1,438	1	5	1,35		1,41,514*	
2005 -	4,925	1,310	}	4	1,36	,582	1,42,821*	
November								
* Includes Reserve Tra	nche Position (RTP)	in India	Source	: Econ	omic Surv	ey, 2005-00	5	
`	-	Table 1	9		· · · · · · · · · · · · · · · · · · ·			
10 Sec 16.	Commodit	- , .		. , 5				
	Commodit							
Commodity Group	Commodity Group			Percentage Share			Growth rate*	
			April-October			April-October		
3			2004 2005			2004	2005	
i. Primary produ		,	14.8	16.	J	39.7	8.8	
Agriculture & a			11.2	9.	-	27.0	35.9	
			4.9	5.	,	81.1	20.5	
ii. Manufactured goods Textiles including		1	74.1	72.		20.2	20.3	
ready-made garments		1	,,,]	,,		0.2	10.5	
Gems & jewellery			13.2 17.4	11. 17.		9.3 20.8	26.9	
Engineering goods		, .	20.2	20.	1	20.8 36.6	23.1	
Chemical & re		,	20.2 11.8	20. 11.			15.9	
products	.iuccu	}	11.0	11.	.,	30.1	1.	
products				l	1			

2.1

0.5

8.7

100.0

1.7

0.5

11.1

100.0

16.9

-19.6

89.4

28.3

3,400

1,117

-1,585

2,754

-519

6.686

4,734

0

-2.666

410

-26

4,303

2,316

-617

5,862

3,272

Current Account Balance

External assistance (net)

NR deposits (net)

10. Rupee debt service

Commercial borrowing (net)@

11. Foreign investment (net) of which

5.

6.

7.

8.

9.

IMF (net)

6,345

-3128

-1,692

2.978

-474

4,161

3,217

0

14,083

-2858

-2,925

3,642

-376

13,744

2,388

-5,400

1,923

5.040

-964

-417

12,147

3,240

6.3

11.6

57.7

23.5

0

• In US \$ terms

Handicrafts

Leather & manufactures

Total Exports (I+ii+iii)

Petroleum, crude & products

Source: Economic Survey, 2005-06

7.9

9.6

9.3

9.4

6.2

2.6

2.8

2.2

1.4

Primary

22.0

11.3

5.4

3.7

24

(Percent)

5.ú

<u>5.á</u>

5.T

10.5

Rural

231.9

244.0

193.2

50th Round (1993-94)

100.0

Table 21 Inflation in terms of Wholesale Price Index since 1991-92

Annual average WPI Inflation (%) All Commodities

100

10.6

5.1

4.7

4.77

Table 27 Unemployment rates in India (NSS) Current Daily Status (CDS) Derinition

Table 23 Estimates of Incidence of Poverty in India

Compined

33.9

36.0

25.1

Poverty Ratio (Fercent)

Urban

38.2

32.4

23.6

Table 20 Imports of principal commodities Percentage Share April-October 2004 2005 Pearl, precious & semi-precious stones 30.2

Source: Economic Survey, 2005-06

Commodity Group

Capital goods

Gold & silver

Chemicals

Edible oils

Period j

Area

Rural

Year

1987-88

1993-94

1999-00

Weights -> 1991-92 to 1995-96

1996-97 to 2000-01

2001-02 to 2004-05

2005-06 as on 28.01.2006

i. Males

ll Urban i. Males

ii. Females

ii. Females

Source: Economic Survey, 2005-06

Source Economic Survey, 2003-04

Inemployment Rate: Percentage of unemployed to total labour force.

Rural

39.1

37.3

27.1

Source: Economic Survey, 2005-6

Electronic goods

Total Imports

In US \$ terms

Coke, coal and briquettes

Metaliferrous ores& metal scrap

Professional instruments and optical goods

Based on 52-week average inflation rates

POI

Growth rates

April-October

2004

56.8

12.6

23.3

33,3

31.5

31.9

-11.9

99.5

72.1

15.2

36.9

Manufactured

63.8

10.1

3.1

4.1

3.6

Fuel

14.2

11.3

13.0

7.7

9.8

Numberof Poor in....on

76.3

67.1

Little Commerce

áCth (Cound (2004)

(Percent)

20

3.1

117

23 .

M	5
	٠.

2005

41.4

36.4

44.2

17.9

34.1

19.7

-15.3

-3.2

57.0

26.8

34.3

NO	1	
	٠	١
	٠	٠

31.8

8.1

10.3

8.2

9.0

5.6

1.6

2.0

2.6

1.3

100.0

යිවානාල්ද දැපිදුලෝගෑල්ල බ්තානල්ද දැපිදුලෝගෑල්ල

Dr. M.S. Swaminathan

Chairman, National Commission on Farmers & M.S Swaminathan Research Foundation

■he year 1968 marked the beginning of the Green Revolution leading to quantum jumps in the productivity and production of wheat and rice. The last 10 years have witnessed a fatique in the green revolution with the growth rate in foodgrain production falling below population growth. Thus, human numbers are increasing faster than our capacity to make the goal of food for all a reality. At the same time, consumption is not going up due to inadequate purchasing power at the household level. A famine of jobs / livelihoods as a result of poor growth of opportunities for employment in the rural non-farm and off-farm sectors is leading to a famine of food at the household level. According to the Union Planning Commission, we are off-track in achieving the UN Millennium Development Goal of reducing the number of hungry persons by half by 2015. Also, we are off-track in reducing infant and maternal mortality rates and in achieving universal primary education.

Doubling Productivity

Our Prime Minister has rightly emphasized the need to double annual foodgrain production from the present 210 million tonnes to 420 million tonnes within the next 10 years, i.e. by 2015, which is also a benchmark year for achieving the UN MDGs. This will call for producing at least 160 million tonnes of rice from 40 million ha and 100 million tonnes of wheat from 25 million ha. Pulses, oil seeds, maize and millets will have to contribute 160 million tonnes. In addition,

the national goal is to raise the production of vegetables and fruits to over 300 million tonnes by 2015. Since land is a shrinking resource for agriculture, the pathway for achieving these goals has to be higher productivity per units of arable land and irrigation water. Factor productivity will have to be doubled, if the cost of production is to be reasonable and the prices of our farm products are to be globally competitive. The average farm size is going down and nearly 80% of the farm families belong to the marginal and small farmer categories. Fortunately, the ownership of livestock is more egalitarian. Enhancing small farm productivity, and increasing small farm income through crop-livestock integrated production systems and multiple livelihood opportunities through agro-processing and biomass utilization, are essential both to meet food production targets and for reducing hunger, poverty and rural unemployment. Progra mmes designed to achieve these goals must be engendered, since there is increasing feminisation of agriculture, poverty and undernutrition, as well as unfortunately HIV/AIDS.

Suicides among Farmers

The year 2005 was a difficult year both for the nation and for farm and fisher families. Beginning with the titanic tsunami of 26 December 2004 and ending with the disastrous earthquake in Kashmir and floods in Tamil Nadu, our farm and fisher families have been subjected to the fury of nature in the form of drought, unseasonal and heavy

ains (like the one which caused damage to he onion crop in Maharashtra) and floods. nstiţutional support to small farmers is weak. The same is true of post-harvest infrastructure.

hesame is true of post-harvest infrastructure. or example, even now paddy is being spread on the roads for drying in many places. The poilage losses can be as high as 30% in the case of vegetables and fruits. Institutions, which are supposed to help farmers, such as

case of vegetables and fruits. Institutions, which are supposed to help farmers, such as research, extension, credit and input supply agencies, are by and large not pro-poor and pro-women. Mechanisms for risk mitigation are poor or absent. Hardly 10% of farmers are covered by crop insurance. Farm families are also not covered by health insurance. There is no Agricultural Risk Fund. Both risk mitigation and price stabilization are receiving inadequate policy support. The cost of production is

policy support. The cost of production is invariably higher than the minimum support price, due to ever-increasing prices of diesel and other inputs. Investment in agriculture has suffered a decline over the past two decades. Capital formation in agriculture and allied sectors in relation to GDP started declining in the 1980s and is only now being reversed. This has adversally affected imigation and rural infrastructure development. An unfortunate consequence of the constellation of hardships faced by small farm families is the growing number of suicides among farmers. The situation is particularly alarming in parts of Vidharba of Maharashtra State. To our shame, the suicide horsects include Wardha district, where Mahatma Candhi spent a significant part of his life, fighting for freedom from colonial rule, so tractite country can be

Year of Agricultural Renewal

The cost-risk-return structure of farming is becoming adverse. Consequently, indebte-dhesisgrowing in rural areas. In Manarashtra over 55% of the States farm induse holds are indebt. Alterage induse holds are low-income.

55 at the Alterage induse in the low-income.

rid of hunger, poverty and gender injustice.

groups, the average size goes up to According to NSSO - 59th round, the average monthly per capita consumption expenditure of farm households across India was Rs.503 in 2003. Endemichunger (i.e., chronic undernutrition), is high both in families without assets like land or livestock, as well as in families with small fand holdings without access to inigation, Policy reform in agriculture is thus overdue, Such policyreformshould be pro-small farmer and pro-women and pro-landless agricultural labour. If we do not attend to the problems of small farm and landless agricultural labour families with a sense of urgency and commitment, the "Indian Enigma" of the coexistence of enormous technological capability and entrepreneurship on the one hand, and extensive under-nutrition, power y and deprivation, on the other, will not only persist, but will lead to social discussion and violence and increasing horean insecurity Without peace and security, enduring economic progress will not be possible. See Mational Commission on Farmershap the redexis recommended that the agricultural year 25/26-CT se sesonated the Year of Agricultural Reneval.

EumerICEE-II, an independence of the professional المرمز والمراجع المراجعة المرا of the country to natesee sem productively and profitability in tegraphing without associated excitaging learn. There we are now وبرير مرديس ويحد فتربط فيدا أخا معادت عالماه harm. The programmes include these as had والمراجع المتعارض الم من و در دورد در المستحديد و مناهد the impact of the service present agricultural consistence CONVERSED ATT OF VICTOR OF THE PROPERTY. reversing the secret can be always and م الرابع المرابع المستعدد الم form form we be to take the to the total ند استنطاح حسسكسه كذالمنا الثلالمكا systems through the يتصد رئين يمن تربيع الشريع يالان المثملون ٠.

policies. The programmes initiated during the 2006-07: Year of Agricultural Renewal by Central and State Governments, Panchayati Raj institutions, Agricultural Renewal by Central and State Governments, Panchayati Raj institutions, Agricultural, Veterinary, Rural and Women's Universities and IITs, Private and Public Sector Industries, Civil Society Organisations and Mass Media should be designed to foster productivity, quality, sustainability, profitability and employment revolutions in the farm sector in all the over 600,000 villages in the country. It should help to promote job-led economic growth in our villages.

The following should be the major components of the Action Plan for the Year of Agricultural Renewal. All of them require concurrent and integrated attention.

Soil Health Enhancement .

Agricultural Universities, ICAR and CSIR Institutes, Krishi Viquan Kendras, Fertilizer Companies, State Departments of Agriculture and Farmers' Associations and Panchayati Rai institutions should commemorate 2006-07 as the Year of Soil Health Enhancement. The International Crops Research Institute for the Semi-Arid Tropics (ICRISAT) located at Hyderabad may be actively associated in this programme. ICRISAT has very valuable information on the soil health status in dryfarming areas, ICRISAT, CRIDA, CAZRI at Jodhpur and the National Bureau of Soil Survey and Land Use Planning of ICAR can provide technical support and assist in monitoring. The following steps need to be taken to launch a Soil Health Care movement in the country:

i. Re-tool and re-equip all Soil Testing Laboratories in order to enable them to provide each farm household with a Soil Health Card, which contains integrated information on the physics (soil structure, occurrence of hard pan in the subsoil, etc.), chemistry (soil organic

matterand macro-and micro-nutrient satus), and microbiology (occurrence of earthworms, soil micro-organisms etc.,) of the soils. The Soil Health Cards should stimulate balanced fertilization, including the amelioration of micro-nutrient deficiencies.

ii. Promote through campaigns and demonstrations, the introduction of fodder/ grain legumes in the crop rotations as also the cultivation of green and green-leaf manure crops.

iii. Composting of all agricultural residues and wastes and the use of microbial fertilizers and farmyard manure should be promoted to the maximum extent possible.

iv. Methods of improving soil health through integrated nutrient supply will have to be prescribed and farmers should be assisted to adopt the recommendations.

v. All staff working in Soil Testing Laboratories should be retrained.

vi. Integrated wasteland and biofuels programme should be promoted.

vii. The Agri-clinics programme should be restructured and revitalized and farm graduates should be encouraged to take to a career of self-employment in the rural services sector.

viii. Breeding soils for higher productivity may be undertaken in the case of problem soils and wastelands.

ix. Wasteland development could be linked to the production of biofuel and industrial raw material (for the production of paper and board, rayon, packaging material etc.) as well as fodder, firewood etc.

x. Community Land Care movements may be launched by Panchayats

Soil Health Enhancement holds the key of improving the return from investment in other inputs like seeds and water. Dry-farming areas need particular attention from the point of view of overcoming micro-and macro-nutrient deficiencies. The new green revolution has to begin in rainfed areas. The Government of India has announced that it is setting up a

lational Rainfed Area Authority for this urpose.

Nore Crops per Drop of Water

Irrigation Water: Supply Augmentation nd Demand Management: Water is a public good and a social resource and not private roperty. The privatization of water supply listribution is fraught with dancers and could and to water wars in local communities. acreasing supply through rainwater harvesting ind recharge of the aguifer should become nandatory. In addition, a nationally debated ind accepted strategy for bringing 10 million sectares of new - area under irrigation under he Bharat Nirman programme should be leveloped. The Polavaram Project to be built cross the Godavari in Andhra Pradesh is a case n point. Different viewpoints can be reconciled only by dialogue and consensus building. All existing wells and ponds should be renovated. Demand Management through improved rrigation practices, including sprinkler and drip irrigation, should receive priority attention. A Water Literacy movement should be aunched and regulations should be developed for the sustainable use of ground water. Seawater farming should be promoted in areas through the cultivation of coastal mangroves, salicornia, casuarina and appropriate halophytic plants. The conjunctive use of rain, river, ground, sea-and treated

sewage water should become the principal

method for the effective use of available water

resources. In water scarce areas, the land use

system should place emphasis on the

cultivation of high value - low water requiring

crop, such as pulses and oilseeds. Pulses and oil

seed villages can be promoted where all farmers

inherent in the "System of Rice Intensification" (SRI) methodology should be perfected and popularized. More crops per drop of water should not remain just a slogan. Land use decisions are also water use decisions. Hence, the choice of cropping systems should be based on irrigation water availability including rainfall pattern. Watershed management should be linked to the different Technology Missions as emphasized in our earlier reports. so that the concurrent availability of water and of the other inputs like seeds needed to optimize. the benefit from irrigation water can be ensured. Low cost green houses can be promoted in areas where evaporation exceeds precipitation during many months in a year. Panchayats may be assisted in launching water literacy and water quality management programmes.

Credit and Insurance

Credit reform should consist of the following measures:

i. Interest rate on agricultural loans: The spread between the deposit and lending interest rates in India is high by international standards. The need is to improve the efficiency in the financial intermediation by controlling both the transaction cost and the risk cost. On the part of the Government, crop insurance as well as the speed and manner in which the debt recovery and settlement process operates would need to be considerably improved. These improvements could be brought about in the medium to long term. A high interest rate means that a greater proportion of income has to be diverted to interest payment. Keeping in view the decline in the profitability of agriculture, and increasing farmers' distress and indebtedness, the government may consider providing support to the banking system for reducing the rate of interest for crop loans to 4% during the Year of Agricultural Renewal.

ii. Compounding of interest on arrears: The Compounding of interest

work together in harvesting rainwater and sharing the water equitably for growing pulses

and oilseeds. Promotion of "Hybrid arhar (pigeon pea) villages" can be the starting point of a pulses revolution. In paddy and sugarcane, water saving methods of cultivation like those naving adequate repaying capacity. The farmers facing erosion in income and consequently their repaying capacity due to market failure should not be charged compound interest on arrears.

From micro finance to livelihood finance

pe applied only in the case of recalcitrant

porrowers who do not pay the due inspite of

iii. There is an urgent need for a paradigm shift from micro-finance to livelihood finance, as the access of the poor to micro-finance alone is not likely to alleviate their poverty.

Livelihood finance is a comprehensive

approach to promoting sustainable livelihoods

for the poor, which includes financial services,

[including insurance for life, health, crops and livestock: infrastructure finance for roads,

power, market, telecom etc. and investment

in human development], agriculture and business development services [including productivity enhancement, local value addition, alternate market linkages etc.] and institutional development services [forming and strengthening various producers' organisations, such as SHGs, water user associations, forest protection committees, credit & commodity cooperative empowering Panchayats through capacity building and knowledge centres etc.

iv. Access to institutional credit in poverty stricken tribal areas: Special efforts are required

the poverty stricken tribal areas in the dry land agriculture regions like the Kalahandi belt of Orissa /palamau region of Jharkhand / tribal areas of Chhattisgarh/ Madhya Pradesh/ Andhra Pradesh and the Vidharba region of Maharashtra.

v. Agri-risk Fund: There are areas in our Country, which have recurrent and frequent

to improve the access to institutional credit in

country, which have recurrent and frequent drought/floodsetc., which cripple the incomes of the farmers. These farmers become defaulters to the banks and thereby become 'push-outs' of the credit system. Rescheduling

The government of India may step into create an Agricultural-Risk Fund to provide relief [waiver in full / part of loan and interest] to the farmers in the case of successive droughts, etc. and also waiver of interest on loans in areas hit by droughts, floods, heavy pest infestation etc. This Fund should have contributions from the Central Government,

State Governments and Banks in a

debt recovery: There is a need for moratorium

on debt recovery including loans from non-

institutional sources in distress hotspots, till

vi. Distress 'hot spots' - moratorium on

predetermined fashion.

and restructuring of their loans are not enough

in the event of successive natural calamities.

reasonable profit margins in agriculture operations are restored. The debt recovery may be staggered in easy installments. For this purpose, liquidity support may have to be provided to the localised banks like the RRBs/Cooperative Banks etc.

vii. Credit for low cost/sustainable agriculture: There is need for developing suitable project profiles for low input sustainable agriculture and aquaculture. Institutional credit should also be available for viable projects of sustainable farming practices including the upkeep of traditional breeds of

cattle.

viii. Issue of Kisan Credit Card to Women farmers: The Kisan Credit Card (KCC) is a major innovation in agricultural credit. However, inspite of nearly 4.5 crore KCCs issued by the banks, very few cards have been issued to women farmers. As a matter of fact, no separate data are available in this regard. Keeping in view the fact that there are a very large number of women-headed farming families, particularly in the hills and NE Region, special effort is needed to issue KCC to these farmers. The banks may develop proper

documentation systems to issue KCCs to women

where the land is in the name of the menfolk

who do not reside in the rural area [jobs in the

cities/army etc.] or face similar other situation and the land is cultivated by the wife. ix Distress sale -need for pledge loans:

Distress sale by small / marginal farmers to square off their debts or for immediate consumption purposes soon after harvest is

consumption purposes soon after harvest is quite common. According to the Report of the Inter-Ministerial Task Force on Agricultural

Marketing Reforms, micro-level studies reveal that about 50% of the marketable surplus of small/marginal farmers is disposed off in distress sale. It is normal for a farmer to get 10-15% discounted price for spot payment for his produce. Pledge loans to farmers need to be liberalised and encouraged to help the farmers to overcome this problem.

x. Credit business potential in marketing

infrastructure: The banking system needs to

develop credit potential of financing projects for improving/modernization of markets, storage including cold storage facilities, rural based transport operators, etc. xi. Pariwar Bima Policy: An integrated micro

insurance policy providing floating cover for various risks i.e., hospitalisation of husband, wife and dependents, natural death, accidental death, permanent partial disability and loss/damage to dwelling unit etc., may be introduced with government support for the poor. The Panchayats and NGOs/Self Help Groups could be the delivery arrangement for reaching a large number of clients. The government may meet a part of the premium cost as a life saving support towards a safety net for the poor.

xiii. Rural Insurance Development Fund: A Rural Insurance Development Fund may be reated to take up development work for spreading rural insurance.

xiv. Crop Insurance: Crop insurance is covering about 14% of the farmers. The resist to expand the cover to all farmers and all crops in a time bound manner. The scheme needs to be made more farmer friendly and the premium reduced.

where severely indebted farmers can be provided with a debt rescue package of information in order to get them out of the debt trap, and thereby save them from committing suicide,

xvi. Establish in every block a Self-help

AV. I stabilish Credit Counseling Centres

Group Capacity Building and Mentoring Centre in order to equip members and managers of SHGs with the needed management, marketing and accounting expertise. The use of Kisan Call Centres needs to be popularized.

xvii. Develop and introduce an integrated

credit-cum-crop-livestock-human health insurance package.

xviii. Promote credit and insurance literacy

through the Every Village Knowledge Centre movement. For this purpose, introduce policies for more extensive use of Community Radio linked to the internet / cell phone.

Stress on Technology Technology is the pri

terte colorise.

Technology is the prime mover of change. Both technology fatigue and technology gap should be avoided. This will call for revitalization of research, education and extension systems. It is suggested that all ICAR institutions and Agricultural Universities may commemorate 2006-07 as the Agricultural Technology Year. The major aim of this year should be to strengthen participatory research and knowledgemanagement with farming families and the organization of about 60,000 Lab to Land programmes in the area of post-harvest technology and value addition to primary products. Farm schools should be established in the fields of farmer-achievers in order to focus farmer to farmer learning of their

Agiological roserior words with the petitional confermation and confermation of the co

should be to enhance income per hectare on an environmentally sustainable basis.

There should be a proper match between production and post-harvest technologies and a post-harvest technology wing should be added to every Krishi Viqyan Kendra. Also. Lab to Land demonstrations should include post-harvest technology. About 60,000 lab to land demonstrations may be organized in the area of post-harvest handling, processing and value addition during 2006-07 to mark the 60th anniversary of our independence. Many of them should be organized in dryfarming areas, where millets, pulses, oilseeds and cotton are grown. The help of CSIR and the Central Food Technology Research Institute (CFTRI), Mysore should be taken by ICAR while designing the Lab to Land programme. The demonstration should be so designed that they also serve as training around.

For landless agricultural labour (both women and men), the aim should be to convert them into skilled workers, thereby adding economic value to their time and labour. The training should be in skills which can help in organizing market driven enterprises and the training methodology should be based on the principle of learning by doing.

Management procedures which can confer the economy and power of scale to small and marginal farm families, such as Small Holders' Cotton and Horticulture Estates should be popularized. In such estates, production and biomass utilization can receive concurrent attention. Average farm size is going down steeply, and Farmers' SHGs in the form of joint management units like the Cotton, Horticulture, Aquaculture and other Estates are urgently needed. The SHG movement should cover both the production and post-harvest phases of farming.

Value addition to biomass will help to generate skilled jobs. Rice occupies the largest

area in the country and the opportunities for generating more jobs and income by establishing Rice BioParks. Similarly, ecohoards can be produced from cotton stalks.

There should be a pro-nature, pro-poor and pro-woman orientation to technology development and dissemination. Organic Farming and Low External Input Sustainable Agriculture (LEISA) techniques should be promoted along with Integrated Natural Resource Management and Integrated Pest Management (IPM) techniques. The role of women, both as farmers and farm labour is critical for the success of eco-farming practices. Hence, all programmes designed to foster access to technologies must be gender sensitive.

Agricultural and Rural Universities, Home Science colleges and Research Institutes should foster participatory research and knowledge management systems with farm women and men. They should identify farm families from whom other farmers can learn (land to land transfer of technology). Farm Schools should be established in the fields of such farmerachievers as recommended in the first report of NCF.

Scientist - Panchayat Linkage

New technologies like biotechnology (BT) and Information, Communication Technology (ICT) should be demystified and a cadre of Rural Farm Science Managers should be developed by training a couple of women and men members of every Panchayat /local body in the management of new technologies, such as the establishment of refugia in Bt Cotton fields and the detection of spurious seeds by using the Bt detection kit developed by the Central Institute for Cotton Research, Nagpur. Under the 73rd Constitution Amendment, the responsibility of Panchayats includes agriculture and agriculture extension. Therefore, a Scientist -Panchayat linkage is the need of the hour.

Genome Clubs may be organized in village schools and KVKs to spread genetic literacy. Illegal release of genetically engineered crop varieties like Bt Cotton should be stopped. Spurious seeds will ruin the spread of useful

technologies.

Inputs are needed for output. Hence, the right inputs should be available at the right time and place at affordable costs. Input supply systems should become farmer-friendly and also controlled by Farmer Self Help Groups to the extent possible. Quality standards should be enforced. The package of technology to be effective must be accompanied by an appropriate package of services in the areas of extension and input supply.

Energy is a key input. The energy sources needed by farm families, both electricity and diesel, should be available in a reliable manner and at affordable price. In addition, solar energy could be tapped where economical. There should be a Panchayat-led integrated energy generation and management movement.

ICT should be effectively harnessed to empower rural men and women through the Every Village a Knowledge Centre Movement with farming system and season specific information.

Market Reforms

Ultimately, it is only opportunities for assured and remunerative marketing that will determine the economic viability of farming both as a way of life and a means to livelihood. Market reform should begin with production planning, so that every link in the cultivation-consumption-commerce chain receives adequate and timely attention.

The existing State Land Use Boards are not equipped to provide proactive advice to farmers on land use planning. There is an urgent need for a National Land Use Advisory

Service, linked to State and Block Lovel Land

Use Advisory Services on a hub and spokes model. These can be virtual organisations with the capacity to link land use decisions with ecological, meteorological and marketing factors on a location and season specific basis. The National Land Use Advisory Service can be linked to the proposed Indian Trade Organisation (ITO) as described later, It should have continuous contact with IMD. ISRO, Agricultural Universities and Departments, Commodity Exchanges and Futures Markets, APEDA, Commodity Boards and all credible national and international sources of information on domestic and international markets. The Land Use Advisory Service should cover crop and animal husbandry, horticulture, inland fisheries, forestry and agro-forestry, and have the capacity to proactively assess potential surpluses and shortages of essential

The State and Block level Land Use Advisory Service Organisations should have appropriate linkages to data providers at the State and local levels. The Block level Advisory Service can be located in the ISRO supported Village Resource Centres under the Mission 2007: Every Village a Knowledge Centre Movement.

commodities.

Land use advice should be based on the quantity and quality of the available irrigation water and temperature. The National and State Level Land Use Advisory Service should also monitor the state of crops and issue timely warning on emergent surpluses and shortages. If this is done, situations like the recent onion shortage crisis can be avoided. Without economically and ecologically sound and proactive advice on land and water use, farmers will have to fend for themselves in taking decisions on what to grow. With the spread of agricultural globalisation, and the disastrous to the economic reason.

Thus, the National Agricultural Execution of Trickly States and

concurrent with soil health enhancement, augmentation of the area under irrigation coupled with efficiency and equity in water use, credit and insurance reform, technology upgradation and dissemination, and farmercentered marketing. The aim of the Agricultural Renewal Programme will be enhanced productivity per units of arable land and irrigation water, higher profitability, increased on-farm and off-farm employment opportunities and long-term environmental sustainability. Distress hot spots should receive priority attention.

In a globalised economy, we should develop appropriate institutional instruments and policies to safeguard the livelihood security of nearly 70% of our population who depend on crop and animal husbandry, inland and marine fisheries, forestry and agroforestry and agroprocessing for their work and income security. Risk Mitigation and Price Stabilization Funds will be needed. All Technology Missions and the Small Farmers' Agri-business Consortium (SFAC) should be restructured under competent professional management. Each Mission should have measurable time-bound goals. The Mission Director, an eminent professional, should be in position at least for a period of 5 years.

Farmersneedappropriate institutional support to enhance their agricultural competitiveness. Institutional support to confer on small farm families the power and economy of scale is vital to enhance the productivity and profitability of small farms. Multiple livelihood opportunities are essential for ensuring the income security of resource-poor farming families, particularly in rainfed semi-arid, arid and hill regions. Mixed farming and improved post-harvest technology leading to value addition to primary products can help to achieve this goal.

An Indian Trade Organisation

The Union Minister for Commerce and Industry and the Government of India have done a commendable job in safeguarding the

interests of our farm women and men in the recent negotiations at Hong Kong. They have out together a broad-based coalition of the concerned. Postponement of agreement in agricultural negotiations will however prolong the unequal trade bargain entered into at Marrakesh in 1994. As a national selfempowerment measure, we should consider establishing an Indian Trade Organisation (ITO) and our own boxes for domestic agricultural support on the model of WTO's Blue, Green and Amber Boxes. The value of our annual agricultural production including livestock in 2002-03 was Rs.5,60,516 crore1. The value of our exports of farm commodities in 2002-03 was Rs.34,654 crores (6.18% of total agricultural production)2. Thus only a small proportion of our agricultural commodities enter the global market, since with a population of over a billion, there is a large home market. Hence, we must segregate the very modest support we extend to our farmers into two groups - those which are of the nature of life and livelihood saving support to small farm families, and those which could be considered as trade distorting in the global market. The Indian Trade Organisation (ITO) can be virtual organisation, specializing in WTO affairs. It can serve as a brain and information bank for enabling Government to take informed and proactive decisions. It can provide timely advice on potential surpluses and shortages in major agricultural commodities, by maintaining a trade watch. The Indian Trade Organisations should serve as a friend and quide to small farm families and should provide proactive advice on land use and crop planning. The ITO will help to build a longterm memory system in relation to home and external trade and help checkmate adverse global trade trends by stimulating timely national action.

Knowledge Connectivity

Knowledge Connectivity should become

fundamental to physical connectivity under the Bharat Nirman programme. The revised Bharat Nirman document contains the following statement regarding Knowledge Connectivity.

"The Government is committed to expanding rural connectivity through a slew of measures so that rural users can access information of value and transact business. This will include connecting block headquarters with fiber optic network, using wireless technology to achieve last mile connectivity and operating information kiosks through a partnership of citizens, Panchayats, Civil Society Organisations, the Private sector and Government."

The National Alliance for Mission 2007: Every Village a knowledge Centre facilitated by NCF provides a platform for partnership for achieving the goal of knowledge connectivity under Bharat Nirman. It is essential that Government reviews its policy towards Community Radio, since a combination of the Internet /cell phone and community radio will help to take timely information to farmers even in the remotest parts of the country. The last mile and last person connectivity can be achieved only through a combination of internet and either cell phone or FM radio.

In 1995, the Supreme Court of India ruled, "air waves or frequencies are public property". The principle is the same as for seawater enshrined in the immortal Dandi March of Mahatma Gandhi. A successful merger of tele-centre technologies and the radio will help to usher in an era of knowledge revolution in rural India. Efficient disaster management and mitigation will be greatly facilitated by such a step. We therefore recommend that Village Knowledge Centres (VKC) may be permitted to apply for a community radio license. The eligible organisations should also include Gram Sabhas Cooperatives, ICT-Self Help Groups

promoted by NABARD, NGOs and Educational Institutions.

In an era of globalisation and bottom-up approaches to development, Community Radio can act as an important medium strengthening grassroots and mainstream linkages, act as a true people's medium and contribute towards creating a vibrant, aware and informed community, the hallmark of a true democracy. As one of the signatories to the process of the World Summit on Information Society, India is committed to ensure a political atmosphere that enables the creation of a "people-centred, inclusive and development oriented Information Society, where everyone can create, access, utilize and share information and knowledge." Extending to the citizens of India, a right over airwaves would be an essential measure in both these regards.

A Community Radio Station attached to VKCs may be permitted to cover an area of approximately 110 kilometers radius. In the case of hilly areas as well as fishing zones in oceans, a wider coverage will be needed. Broadcasting using transmitters upto half a watt should be delicensed. The Community Radio license should follow the programme and commercial codes of the All India Radio. A forward-looking Community Radio Policy which will be in keeping with the spirit of the Right to Information Act is the need of the hour. Knowledge and skill empowerment of farm families is essential for achieving the goals of the Year of Agricultural Renewal.

Overall economic growth rates have meaning if we do not look after the economic health and survival of over 60% and population. The programme control this article can help to launch the path of an ever-green agriculture characterized improvements in profitability without assured ecological harm.

anking in India has its origin as early as the Vedic period. It is believed that the transistion from money lending to banking must have occurred even before Manu, the great Hindu Jurist, who has devoted a section of his work to deposits and advances and laid down rules relating to rates of interest. During the Mogul period, the indigenous bankers played a very important role in lending money and financing foreign trade and commerce. During the days of the East India Company, it was the turn of the agency houses to carry on the banking business. The General Bank of India was the first Joint Stock Bank to be established in the year 1786. The others which followed were the Bank of Hindustan and the Bengal Bank. The Bank of Hindustan is reported to have continued till 1906 while the other two failed in the meantime. In the first half of the 19th century the East India Company established three banks: the Bank of Bengal in 1809, the Bank of Bombay in 1840 and the Bank of Madras in 1843. These three banks also known as Presidency Banks, were Independent units and functioned well. These three banks were amalgamated in 1920 and a new bank, the Imperial Bank of India was established on 27th January 1921. With the passing of the State Bank of India Act in 1955 the undertaking of the Imperial Bank of India was taken over by the newly constituted State Bank of India. The Reserve Bank which is the Central Bank was created in 1935 by passing Reserve Bank of India Act 1934. In the wake of the Swadeshi Movement, a number of banks with Indian Management were established in the country namely, Punjab National Bank

Ltd., Bank of India Ltd., Canara Bank Ltd., Indian Bank Ltd., The Bank of Baroda Ltd., The Central Bank of India Ltd. On July 19, 1969, 14 major banks of the country were nationalised and on 15th April 1980 six more commercial private sector banks were also taken over by the government. Today the commercial banking system in India may be distinguished into

Public Sector Banks

- a. State Bank of India and it associate banks called the State Bank group
 - b. 20 nationalised banks
- c. Regional Rural Banks mainly sponsored by Public Sector Banks

Private Sector Banks

- a. Old generation private banks
- b. New generation private banks
- c. Foreign banks in India
- d. Scheduled Co-operative banks
- e. Non-Scheduled banks

Co-operative Sector

The Co-operative banking sector has been developed in the country to supplement the village money lender. The co-operative banking sector in India is divided into 4 components.

- 1. State Co-operative Banks
- 2. Central Co-operative Banks
- 3. Primary Agriculture Credit Societies
- 4. Land Development Banks
- 5. Urban Co-operative Banks
- 6. Primary Agricultural Development Banks
- 7. Primary Land Development Banks
- 8. State Land Development Banks

Development Banks

1. Industrial Finance Corporation of India (IFCI)

Stock Market, 2003-07: Outbolk and Strategy

ndian stock markets drew more attention in 2006 with an unusual fluctuation that saw confidence levels dipping to new lows. While 2006 began with the Bombay Stock Exchange Sensitive Index (Sensex) nearing a new milestone, having crossed 10,000 points, many experts were quick to question the sustainable nature of such a growth. Fundamen-

tally strong, the economy was the key driver but rising interest rates and soaring global

crude oil prices applied brakes on its accel-

eration.

Closer to 2006, many leading investment bankers had raised issues like a high current account deficit, then close to a 15-year high of 2.2% of GDP to widen further and mar the party. A slowing capital inflow was already putting stress on Indian rupee. At this juncture, a firm domestic demand for oil was inflating its oil import bill. Though stock markets were on an upswing, these issues were boiling in the background. In fact, fundamentals such as favourable long term demographics, strong corporate fundamentals, better liquidity that helped consumption and private sector growth and a solid GDP growth traiectory of 6-8% drew investments into India. which remains a domestic-demand driven economy.

Beginning of 2006 calendar year, Sensex valuations were a reasonable at a multiple of 13. Compared to emerging markets like Russia and Brazil, India looked well in line or at times slightly overpriced. The P/E multiple and real earnings growth were easily the highest. Indian retail investors in general remained

P. Sreevalsan Menon

Chief of Bureau, The Week, Mumbai

underinvested in equities and the bullishness in indices attracted them more to the market. There were many growth sectors that seem richly valued while there were many sectors such as banking, IT and mining as overweight in many portfolios.

However, Sensex continued its upward journey for 2006 despite facts being loaded against it. In May, the seemingly endless journey was cut short as the month proved yet again to be the nemesis of markets. What seemed as a reaction to a CBDT circular on taxing the FIIs, the Indian markets felt the heat as a selling frenzy began, Trading had to be suspended following an unprecedented selling pressure. From a peak of 12,000 points, Sensex crashed below 9,000 as many investors, who had created long positions, sold to cut down losses. It once again showed the immaturity of Indian investors who now began talking about 'Bearf market and the need to get of out it.

Flls who were struggling to reduce losses in emerging markets and mutual funds who saw large redemptions were net sellers. Many dubbed this as a sign of foreign investors deserting India. Statistically speaking, net selling by institutional funds (with a total asset size \$26bn) was far higher at \$556 million in April 2006, the highest since 1995. Both emerging market funds and country funds sold heavily. They improved this record in May by selling equities worth \$753 million. However, the May 2006 correction was crucial as the BSE Sensex went down 15% in just 7 trading days to take away much of the

criticism that it was overvalued and overrated. This helped most analysts to maintain a positive stance on the Indian economy. Meanwhile, Indiaís six core industries clocked a growth of 8.8% as industrial production rose to 7.7%.

After the mayhem, sanity returned. As volatility remained above surface, investors calmed down to take stock of the situation. Many realized that markets were attractive enough to buy since the PE multiples were attractive and there were much value left in many stocks. As noted earlier, among Asian emerging markets, India was one of the most undervalued markets till 2003-04, a status it changed during the last year. However, the May 2006 correction has changed the equation to India now being labeled as a market with a very small premium. The series of corrections also acted tempting for larger investors. Since June and July 2006, good corporate results and a stable economic environment have been helping markets to be stable at the present levels. From May levels, the markets have slowly pulled back to around 11,700 levels in Sensex due to steady investments.

global liquidity and deteriorating trade balance. These may not check Indiais strong economic growth, say analysts. As India is getting younger and younger, its productivity bounds to rise. The dramatic multiplier effect on our consumption and subsequently on economic growth is tremendous. The per capita Income, currently at \$750, promises to reach \$1,000 in another 8 years time.

Amid this, there are concerns over tight

But going forward, are these secular trends priced appropriately? Analysts react positively. Investments in Indian markets must be seen in marginally a different context. As much as 60% of the GDP is led by domestic consumption whereas others emerging countries are dependent on foreign markets. Indian corporates have been systematically improv-

ing their records in terms of return on equity, corporate governance, various benchmarking and overall competitiveness to stay above the rest. This makes them more attractive.

For the next few months ending the financial year 2007, sectors like FMCG. pharma, retail, media and textiles look attractive in terms of valuations. But let us take a further view on some of the areas where investment would be meaningful. Basically, India, a service driven growth story, has much to offer since we are in the middle of a capital expenditure boom and rapidly expanding outsourcing. Hence Indian companies having bases in domestic consumption story, banking, capital goods and global footprints are worth investing. The rural India is slowly emerging as a force to reckon with in financial sector, FMCG and other basic services such as telecom and aviation sectors focusing on it. Itis an untapped and sleeping giant out there. Infrastructure companies offer tremendous value story since rural and urban India is craving for more roads and power. As of now, the year ahead looks stable unless oil prices create further havoc and inflation goes out of control.

Analysts say that itis ironic enough to rate India as a safe haven during any global slowdown. A country with least dependence on global trade, India exports services and projects crucial to global companies. The country continues to sustain the lead in terms of manpower cost and volumes. An abundant supply of young manpower is a credential seldom one can boast of. Indiais growth will be sustained and may reach greater levels if the government acts on reforms front. Infrastructure, agriculture, taxation and labour laws need immediate attention. Large investments are required for SEZs, ports, airports, roads and imgation. Meanwhile, more investments are required to tion, health and legal systen

As of now, India remains in focus for the next three years for many funds who are country centric. Top of the list are India country funds, which sustain high cash levels for India investments. Their calculation is that immediate uncertainties that weighed the Indian markets are over. Interest rate hikes seem to have reached finishing line since inflation is now under control. Any fear of a weak monsoon was far fetched as most of the country received excess rainfall, often resulting in floods. Critically, this year, the agriculture is expected to make a significant and a positive contribution to GDP growth.

If you are looking to invest in India in 2007, there is no better time than now. The country has survived the worst since May 2006, more importantly it escaped the massive capital outflows from emerging markets, and still looks very promising in terms of valuation. As analysts noted, even the Indian derivative markets are about to buck the pessimist overtone. At present, going by the key fundamentals, most experts believe that for next 6-8 months. there is very limited downside risk at the current levels. So go ahead and pick up your choicest blue chips and lot more of mid-caps because these are quite attractive now.

According to a Morgan Stanley report. technically speaking towards third quarter of 2006-07, an intermediate rally is expected and that would sustain the Sensex to reach 14,700 points by June 2007. As it noted. India had been the best performer in the emerging markets rally so far giving a handsome return of 45.6%, in US dollar terms, followed by Indonesia. The research further said that India was amongst the cheapest Asian emerging markets both on trailing and prospective terms. If India is ranked the second most volatile market after Korea, it has also delivered a 7% CAGR (in US dollar-terms) for the last 15 years. In short, it is the second best performing Asian emerging market.

Commodity Market

Naveen Mathur

New Delhi

or those who want to diversify their port folios beyond shares, bonds and real estate. investment in commodities can be a good option. Commodities have the potential to become a separate asset class for market-savvy investors, arbitrageurs and speculators.

In many ways, Commodity markets operate just like public market places or auctions. For instance, prices of commodities on an exchange are determined solely by supply and demand conditions, which is no different from the way in which prices are determined in more familiar markets. In addition, commodity margins are

analogous to the down payment one generally makes in connection with a real estate transaction. Once certain facts are understood, one can see that commodity markets are an integral part of a well-run economy.

The primary distinction between a futures market and a market in which actual commodities are bought and sold, either for immediate or later delivery, is that in the futures market one deals in standardized contractual agreements only. These agreements (more formally called futures contracts) provide for delivery of a specified

amount of a particular commodity during a specified future month, but involve no immediate transfer of ownership of the commodity involved.

The purpose of a commodity exchange is to provide an organized marketplace in which members can freely buy and sell various commodities in which they have an interest. The exchange itself does not operate for profit. It merely provides the facilities and ground rules for its members to trade in commodity futures, and for non-members also to trade by dealing through a member broker and paying a brokerage commission.

Indian Scenario

Commodity markets in India are still in their initial stages of development. The essential contributors of this scenario include stringent regulatory restrictions, intermediate ban on commodity trading and policy interventions by the government. To increase the efficiency of the markets the Forward Markets Commission (FMC), the governing body of commodities trading in India, has taken several initiatives for the establishment of national level multi-commodity exchanges in India.

These exchanges serve as platforms for facilitating transparent trading, trading in multiple commodities, electronic delivery systems and efficient regulatory mechanisms, creating a world class environment for Indian traders. In order to sustain the increasing volumes in commodities trade, the need for proper clearing and settlement systems, warehousing facilities and efficient pricing mechanisms has been identified. With the recent boom in commodities markets, Indian participants are gearing up for exploiting the potential opportunities in the future.

The major commodity markets are in the United Kingdom and in the USA. In India there are 25 recognised future exchanges, of which there are three national level multi-commodity exchanges. After a gap of almost three decades, Government of India has allowed forward transactions in commodities through Online Commodity Exchanges, a modification of traditional business known as Adhat and Vayda Vyapar to facilitate better risk coverage and delivery of commodities. The three exchanges are:

- * National Commodity & Derivatives Exchange Limited (NCDEX)
- * Multi Commodity Exchange of India Limited (MCX)
- * National Multi-Commodity Exchange of India Limited (NMCEIL)

All the exchanges have been set up under overall control of Forward Market Commission (FMC) of Government of India. Commodity markets are of great help not only for their participants but also the economy as a whole. The twenty year bear market for commodities has drastically reduced the prices of many commodities to their lowest levels. The present shift in trend in commodity trading complemented by the global increase in demand will certainly hold a promising future for the investments in this segment.

Universal Scenario

Secular decline and variability in agricultural commodity prices continue to be matters of concern, not only for those developing countries dependent on commodity export earnings, especially from tropical crops, but also for those developing contries increasingly reliant on food important increasingly reliant on food important for their food security. Secular relative expected as technological progressions and induces supply experiences and induces supply experiences.

The price inelastic demand: cultural commodities means

prices lead to lower export earnings for developing country exporters. Many developing countries, and especially certain least developed countries, remain dependent for a significant share of their export earnings on one or a few agricultural exports. The

impact of world commodity price variability on producers and consumers and the effectiveness of price signals in bringing about adjustments in supply and demand depend on the extent to which world market prices are transmitted to domestic markets.

The Alicover moders of militarily and a special properties of the contract of

Ammu Joseph Bangalore

orld leaders greeted the new century and millennium with the Millennium Declaration adopted by the United Nations General Assembly in September-2000. The 147 heads of state and government who attended the Millennium Summit that month also accepted the Millennium Development Goals (MDGs) emerging from the Declaration as a blueprint for reducing poverty and improving people's lives across the globe. All 191 UN member states, including India, have since pledged to work towards meeting these goals in stages during the period up to 2015.

The eight goals, as well as the specific targets and indicators included under each, have come under legitimate criticism from several quarters for their many limitations. One of the serious shortcomings of the MDGs, for example, is the compartmentalisation of women within the goals and the narrow vision of gender concerns in the context of development reflected in the targets and indicators listed under each goal.

Two of the goals are gender specific: promote gender equality and empower women (MDG 3) and improve maternal health (MDG 5). But clearly, as the Millennium Declaration and several other UN agreements acknowledge, the other six — eradicate extreme

poverty and hunger; achieve universal primary education; reduce child mortality; combat HIV/AIDS, malaria and other diseases; ensure environmental sustainability; and create a global partnership for development – are also intimately linked to gender equality and women's empowerment.

The targets and indicators highlighted under the gender-specific goals further reduce their scope. For example, the only target mentioned under MDG 3 suggests that gender equality and women's empowerment can be achieved simply by eliminating gender disparity in primary and secondary education (preferably by 2005), and at all levels by 2015. Equally inadequate are the four indicators of equality and empowerment associated with this goal: the ratio of girls to boys at each educational level, the sex ratio in literacy among 15-24 year olds, women's share in wage employment in the non-agricultural sector, and the proportion of seats held by women in the national Parliament.

India's Country Report 2005 on the MDGs acknowledges not only that the goals are interlinked but that gender equality is a vital aspect of each. According to the Report, achievement of gender equality depends upon the integration of gender-related tar-

gets within each of the goals and, by the same token, achievement of all the goals is critically dependent upon the attainment of gender equality. The Report also mentions that India's Tenth Five-Year Plan (2002-2007) has not only taken note of the MDCs and in

India's Tenth Five-Year Plan (2002-2007) has not only taken note of the MDGs and included a number of targets to be achieved during the Plan period, but that these internal targets generally aim higher than the internationally agreed upon ones.

This is just as well since India's share of

global responsibility towards meeting the MDGs is fairly substantial. The country has the

dubious distinction of accounting for a quarter of all maternal deaths and nearly a quarter of all deaths of children under five across the globe, 34 per cent of the world's underweight children, and 28 per cent of the world's poor who live on less than US\$ 1 a day.

India's rank in the Human Development Index formulated by the United Nations Development Programme (UNDP) is not very encouraging either: it occupies the 127th position among 177 countries in 2005. This low ranking (with just 50 countries in a worse state of human development) has remained constant for three years, with the UNDP's Hu-

man Development Reports of 2003 and 2004

placing it at the same position. The country's

ranking on the Gender Development Index (first introduced in 1995 to focus on the gen-

der aspects of human development) improved

marginally from 103 in 2003 and 2004 to 98

among 140 countries in 2005. Significantly,

India does not even figure in the UNDP's Gen-

der Empowerment Measure (GEM), presum-

ably on account of the paucity of gender-disaggregated data on women's roles and positions in government, management, the professions and technical fields.

At this point, nearly half way into the 15-year period within which the MDGs are sup-

year period within which the MDGs are supposed to be fulfilled (at least to the extent prescribed by the targets), and close to the end of the 10th Plan period, how close is In-

dia to meeting its international obligations symbolised by the MDGs, not to mention achieving its own targets?

Maternal health

Take, first, the simpler of the two genderspecific MDGs and its accompanying target: improving maternal health by reducing the maternal mortality ratio by three quarters. India's maternal mortality ratio (MMR) is currently among the highest in the world; only about 30 countries across the globe - most of them among those included in UNDP's "low human development" category — have a worse record (India is placed close to the bottom of the "medium human development" category). According to India's Country Report, in order to achieve MDG 5, the MMR has to be reduced from the estimated 437 deaths per 100,000 live births in 1991 to 109 by 2015. The latest MMR figure quoted by the Report is 407 for 1998, although calculations by United Nations agencies, based on the most recent data reported by national authorities, peg it considerably higher at 540 in the period up to 2003.

In any case the prospects for cutting the prevailing MMR by three-quarters over the next few years do not seem very bright. According to an editorial in the Medical Journal Armed Forces India of July 2005, the National Health Policy of 1982 aimed at reducing the MMR from over 400 then to less than 200 by the year 2000. Going by figures from the Registrar General of India (RGI), quoted in the editorial, not only did the MMR remain 407 until the turn of the century, but evidence suggests that it has not changed significantly since.

This is not surprising considering the country's record in the proportion of births attended by skilled health personnel (the second of the two indicators mentioned under this goal). By the government's own admission, this has increased from 25.5 per cent in

prices lead to lower export earnings for developing country exporters. Many developing countries, and especially certain least developed countries, remain dependent for a significant share of their export earnings on one or a few agricultural exports. The

impact of world commodity price variability on producers and consumers and the effectiveness of price signals in bringing about adjustments in supply and demand depend on the extent to which world market prices are transmitted to domestic markets.

his died henqulved muhinellilled egabelim, geslaresimens = ienicki) miliul

Ammu Joseph Bangalore

world leaders greeted the new century and millennium with the Millennium Declaration adopted by the United Nations General Assembly in September 2000. The 147 heads of state and government who attended the Millennium Summit that month also accepted the Millennium Development Goals (MDGs) emerging from the Declaration as a blueprint for reducing poverty and improving people's lives across the globe. All 191 UN member states, including India, have since pledged to work towards meeting these goals in stages during the period up to 2015.

The eight goals, as well as the specific targets and indicators included under each, have come under legitimate criticism from several quarters for their many limitations. One of the serious shortcomings of the MDGs, for example, is the compartmentalisation of women within the goals and the narrow vision of gender concerns in the context of development reflected in the targets and indicators listed under each goal.

Two of the goals are gender specific: promote gender equality and empower women (MDG 3) and improve maternal health (MDG 5). But clearly, as the Millennium Declaration and several other UN agreements acknowledge, the other six—eradicate extreme

poverty and hunger; achieve universal primary education; reduce child mortality; combat HIV/AIDS, malaria and other diseases; ensure environmental sustainability; and create a global partnership for development – are also intimately linked to gender equality and women's empowerment.

The targets and indicators highlighted under the gender-specific goals further reduce their scope. For example, the only target mentioned under MDG 3 suggests that gender equality and women's empowerment can be achieved simply by eliminating gender disparity in primary and secondary education (preferably by 2005), and at all levels by 2015. Equally inadequate are the four indicators of equality and empowerment associated with this goal: the ratio of girls to boys at each educational level, the sex ratio in literacy among 15-24 year olds, women's share in wage employment in the non-agricultural sector, and the proportion of seats held by women in the national Parliament.

India's Country Report 2005 on the MDGs acknowledges not only that the goals are interlinked but that gender equality is a vital aspect of each. According to the Report, achievement of gender equality depends upon the integration of gender-related tar-

gets within each of the goals and, by the same token, achievement of all the goals is critically dependent upon the attainment of gender equality. The Report also mentions that India's Tenth Five-Year Plan (2002-2007) has not only taken note of the MDGs and included a number of targets to be achieved during the Plan period, but that these internal targets generally aim higher than the internationally agreed upon ones.

This is just as well since India's share of global responsibility towards meeting the MDGs is fairly substantial. The country has the dubious distinction of accounting for a quarter of all maternal deaths and nearly a quarter of all deaths of children under five across the globe, 34 per cent of the world's underweight children, and 28 per cent of the world's poor who live on less than US\$ 1 a day.

India's rank in the Human Development

Index formulated by the United Nations Development Programme (UNDP) is not very encouraging either: it occupies the 127th position among 177 countries in 2005. This low ranking (with just 50 countries in a worse state of human development) has remained constant for three years, with the UNDP's Human Development Reports of 2003 and 2004 placing it at the same position. The country's ranking on the Gender Development Index (first introduced in 1995 to focus on the gender aspects of human development) improved marginally from 103 in 2003 and 2004 to 98 among 140 countries in 2005. Significantly, India does not even figure in the UNDP's Gender Empowerment Measure (GEM), presumably on account of the paucity of gender-disaggregated data on women's roles and positions in government, management, the professions and technical fields.

At this point, nearly half way into the 15year period within which the MDGs are supposed to be fulfilled (at least to the extent prescribed by the targets), and close to the end of the 10th Plan period, how close is India to meeting its international obligations symbolised by the MDGs, not to mention achieving its own targets?

Take, first, the simpler of the two gender-

specific MDGs and its accompanying target: improving maternal health by reducing the

maternal mortality ratio by three quarters.

India's maternal mortality ratio (MMR) is cur-

rently among the highest in the world; only

about 30 countries across the globe - most

Maternal health

of them among those included in UNDP's "low human development" category --- have a worse record (India is placed close to the bottom of the "medium human development" category). According to India's Country Report, in order to achieve MDG 5, the MMR has to be reduced from the estimated 437 deaths per 100,000 live births in 1991 to 109 by 2015. The latest MMR figure quoted by the Report is 407 for 1998, although calculations by United Nations agencies, based on the most recent data reported by national authorities, peg it considerably higher at 540 in the period up to 2003. In any case the prospects for cutting the prevailing MMR by three-quarters over the next few years do not seem very bright. According to an editorial in the Medical Journal Armed Forces India of July 2005, the National Health Policy of 1982 aimed at reducing the MMR from over 400 then to less than 200 by the year 2000. Going by figures from the Registrar General of India (RGI), quoted in the editorial, not only did the MMR remain

dence suggests that it has not changed significantly since.

This is not surprising considering the country's record in the proportion of births attended by skilled health personnel (the second of the two indicators mentioned under this goal). By the government's own admission, this has increased from 25.5 per cent in

407 until the turn of the century, but evi-

1992-93 to 39.8 per cent in 2002-03. Although the Country Reports suggests that this is an encouraging trend that can help reduce chances of maternal death, such slow improvement — 14 per cent over a decade — appears unlikely to help India meet the MDG target of reducing maternal mortality appreciably in the less than ten years left.

It is also important to note the inter-state differences in MMR which, according to the RGI, range from 87 in Kerala (far below the national average as well as the MDG-based target of 109) to 707 in Uttar Pradesh and 739 in Orissa (considerably higher than the national average and nearly seven times the MDG target). Unless the latter states, along with Rajasthan (607), Madhya Pradesh (498) and Bihar (451), rapidly and effectively improve their performance on this front, the goal of improving maternal health in the country may remain unfulfilled well beyond 2015.

Gender equality

With the goal of promoting gender equality and women's empowerment having been reduced within the MDGs to eliminating gender disparity in education, achieving this sole target under goal number three may be more feasible. According to the Country Report, at the beginning of the decade the proportion of females to males was 78:100 in primary education, 63:100 in secondary education and 58:100 in higher/tertiary education. The govemment seems fairly upbeat about the possibility of achieving the limited target of ensuring that there is no gender disparity in education by 2015. The Report puts gender parity at the primary level at about 88 per cent for the whole country but highlights the fact that two states (Sikkim and Meghalaya) have already reached parity while the majority of the rest follow close behind. In addition it points to increased enrolment and decreased dropout rates among girls at various levels.

The Country Report also highlights India's record with regard to the other indicators listed under MDG 3. For instance, it puts the female literacy rate at just over 53 per cent in 2001 (although the figure revealed by the Census of India, 2001 is a little above 54 per cent and UN agencies, working with national estimates, record it at a little below 48 per cent). According to the Report, the ratio of literate women to men is 71:100.

However, in terms of both female literacy and gender parity in education, inter-state variations will have to be tackled if women's educational disadvantage is to be actually eliminated on the ground. For example, a number of states are lagging way behind in female literacy, with Bihar and Jharkhand bringing up the rear at just over 33 and 39 per cent respectively, and states like Jammu & Kashmir (41.8%), Uttar Pradesh (42.9%), Arunachal Pradesh (44.2%) and Rajasthan (44.3%) also trailing well below the national average, which in itself is hardly a satisfactory benchmark.

According to the Report, during 1999-2000 the share of Indian women in wage employment in the non-agricultural sector—the third indicator under MDG 3 — was just over 15 in rural areas and approximately 16.6 in urban areas. And the proportion of seats held by women in Parliament — the fourth indicator — is abysmally low at just a little over 9 per cent (averaging the numbers in the Lok Sabha and the Rajya Sabha in 2004). Clearly the country has many miles to go before it achieves even the limited vision of gender equality and women's empowerment outlined by MDG 3.

Child mortality

Although the Country Report begins by acknowledging that gender equality is a prerequisite for the achievement of all the MDGs, it stops short of seriously addressing genderrelated factors in its discussion of other goals.

Manorama Yearbook 2007

Take, for instance, MDG 4: reduce child mortality. The specific target is to "reduce by two thirds the mortality rate among children under five."

According to the Human Development Report 2005 (HDR 05) India currently accounts for 2.5 million child deaths annually, which translates into approximately one fifth of the world total of 10.5 million. In other words, of

translates into approximately one fifth of the world total of 10.5 million. In other words, of every five children who die in the world, at least one is an Indian child. What is more, one in every 11 children in this country dies in the first five years of life because of lack of ac-

cess to low technology, low cost interventions.

To make matters worse, malnutrition, which has barely improved over the past decade,

affects at least half of all Indian children.

Child mortality has everything to do with the status of women but there is no mention in the MDGs or in India's Country Report of the gender aspects of the problem. Take, for instance, gender-related differences in child death rates. According to the HDR 05, in India "girls aged one to five are 50 per cent more likely to die than boys." This leads to

the phenomenon of "missing" girls: "In this

country alone as many as 130,000 young lives are lost each year because of the disadvan-

tage associated with being born with two X

chromosomes." (HDR 05) What is more, female mortality rates remain higher than male

rates up to age 30, reversing normal global

demographic patterns.

Most reasons for the higher rate of child mortality among girls have to do with gender. As the latest HDR points out, the gender differences in child deaths reflect a widespread preference for sons, particularly but not only in the northern states of the country. Less valued than their brothers, girls are often taken to health facilities in more advanced stages of illness, taken to less qualified doctors and have less money spent on

There are additional gender-related rea-

their nutrition and health care.

sons for India's scandalously high, though slowly reducing, child mortality rate. The low social status and consequent educational disadvantage suffered by women have a direct bearing on their own health as well as that of their children. For example, about one-third of Indian children are underweight at birth and that is directly related to their mothers' poor health.

Women's education is, of course, important in itself – because women have or should have equal right to education. But it is also closely associated with child mortality. As the HDR 05 points out, the under-five mortality rate is more than twice as high for children of illiterate mothers as for those whose mothers have completed at least middle school. Apart from being less prone to under-nutrition, better educated mothers are more likely to use basic health services, have fewer children, avoid having children too early, and space births. And all these factors contribute to child survival.

So, clearly, as India's Country Report initially points out, all the MDGs are closely connected and gender inequality impacts almost all of them. Reducing child mortality (MDG No. 4) cannot realistically be separated from MDG 1 (eradicate extreme poverty and hunger) and MDG 2 (achieve universal primary education), besides the two gender-specific goals: MDG 3 (promote gender equality and empower women) and MDG 5 (reduce maternal mortality). Actually, even MDG 6 (combat HIV/AIDS, malaria and other diseases) is linked: for example, the growing number of women who are HIV+ suggests that more children at risk from the virus - and, as is well known, women's vulnerability to HIV/AIDS also has to do with gender dispanties.

In spite of these connections between gender and child mortality, India's Country Report on the MDGs glosses over the obvious and apparently growing gender gap in the Under Five Mortality Rate (USMP).

is clear in some of the graphs and tables in the section on child mortality. For example, the graph presenting data on the USMR by place of residence and sex shows that the overall rate has gone down in both rural and urban areas between the periods 1988-1992 and 1998-2002. However, while the differ-

and 1998-2002. However, while the difference between male and female child death rates has remained more or less the same in rural areas during the two periods (higher by approximately 17 for females), the even more distressing fact is that the difference in urban areas has risen from one in the ear-

creased in urban areas over that decade. All the Country Report has to say about this is: "More declines are noticed for males than for females."

The growing gender gap is evident in the

lier period to nine in the later period. In other words, the USMR for girls actually in-

Infant Mortality Rate (IMR), too. It is true, as the Report states, that the IMR has been slowly but steadily falling over the decades, from 114 in 1980 to 60 in 2003. What is not highlighted in the document is the fact that the gap between male and female child deaths has actually risen in the new millennium. It is clear from the table and graph presenting IMR data by sex that the gap hovered around two between 1980 and 2000 and then jumped to seven by 2003. De-

spite this disturbing development, the Re-

port merely says, "The rate of decline is more

pronounced in the case of male as compared

What is more, the alarming decline in the sex ratio of children in the 0-6 age group over the past decade and more is dealt with – indeed, downplayed — in just one paragraph at the very end of the chapter dealing with MDG 4. The sex ratio of females to males in the Indian population is among the

most imbalanced in the world: not only has

it long been awkwardly and unnaturally

skewed, it has also been declining for sev-

1991. The shocking revelation of the Census of India, 2001 was that while the sex ratio among the general population stood at 933 females to1000 males (up from 927 in 1991), the sex ratio among the youngest section of the population — 0-6 years — had dropped sharply to 927 (down from 945 in 1991).

eral decades - from 972 in 1901 to 927 in

The Union Minister for Health recently acknowledged that the number of "missing girls" in the country had risen from 25 million in the 1990s to 35 million in the new millennium. What is more, the under-six sex ratio is most unfavourable in prosperous states like Punjab, Haryana, Gujarat and Mahara-shtra. Not only do urban centres like Delhi and Chandhigarh also have an adverse sex ratio but in the capital city the problem appears to be most acute in the more affluent areas. It appears that the falling sex ratio has increasingly become a problem among the urban, affluent and educated sections of the population, although it is also quickly spreading in other areas. According to the Census authorities, among the factors contributing to the dismal situation are sex-selective abortion, female infanticide,

Considering the evidence, it is remarkable that India's Country Report on the MDGs does not list gender discrimination among the principal causes of child mortality in the country. With the data clearly suggesting that it is an important factor contributing to the high rate of child death, it is obvious that MDG 4 cannot be met without tackling the problems that render the girl child in India an endangered species.

and neglect of girl children.

in India an endangered species.
Indeed, according to the HDR 05, reducing gender inequality would have a catalytic effect on cutting child deaths: if India closed the gender gap in mortality between girls and boys aged one to five, that would save an estimated 130,000 lives, reducing the

to female."

country's overall child mortality rate by a substantial five per cent. Instead, the document reveals, India is widely off track for meeting the child mortality target, with the annual rate of decline having slowed down between the 1980s and the 1990s by almost one fifth – from 2.9 to 2.3 per cent.

Development, security, human rights for all

It is worth noting that, unfortunately and ironically, this has happened during the decades when the country ostensibly began to move into the premier league of world economic growth, with high technology exports soaring and the huge Indian consumer class becoming a magnet for foreign investors.

The World Summit held at the UN headquarters in New York in September 2005, to mark the fifth anniversary of the adoption of the Millennium Declaration and Development Goals, was expected to result in major decisions on critical issues such as ending poverty, promoting human rights, fighting terrorism and helping countries recover from deadly conflicts of various kinds. The main themes of the Summit were: Freedom from Want, Freedom from Fear and Freedom to Live in Dignity.

In a report titled "In Larger Freedom: Towards Development, Security and Human Rights for All," released ahead of the Summit, UN Secretary General Kofi Annan said the "world must advance the causes of security, development and human rights together, otherwise none will succeed. Humanity will not enjoy security without development; it will not enjoy development without security; and it will not enjoy either without respect for human rights."

While that is certainly true, it is equally true that neither security nor development nor human rights can be achieved unless women's rights to all three are fully recognised, respected and realised. Clearly women, too, have a right to Freedom from Want, Freedom from Fear and Freedom to Live in Dignity.

alimbatenest actique adii

N. Vittal

Corruption is lack of integrity. This could be lack of intellectual integrity, financial integrity or moral integrity. In the context of public life, it is the lack of financial integrity which is prominently under discussion. The corrosive negative impact of corruption is being increasingly realized. World Bank defined corruption as use of public office for private gain. It is increasingly therefore, in the context of public affairs and governance of the country that the

Formerly Central Vigilance Commissioner issue of corruption is being discussed and highlighted.

The United Nations had adopted in the year 2003, the Anti-Corruption Convention. This was preceded by the 1997 adoption of the Anti-Corruption Convention by the Anti-Corruption Convention by the Anti-Corruption Convention by the OECD countries. The fight a tion as an important item in the international scene emeral after the end of the cold war.

So long as the cold war !

world was divided between two super powers, the United States and the soviet Union, in international affairs, particularly when it comes to financial assistance and loans from multilateral aid agencies like the World Bank etc. are concerned, corruption did not figure prominently as a significant issue. In those days what was important was the geo strategic consideration of the super powers. Some of the developing countries were led by notoriously corrupt dictators. The World Bank was able to fund them because the attitude of the super powers was, 'it is true that so and so may be the son

of a bitch, but he is our son of a bitch'.

Corrosive Impact

But after the end of the cold war the corrosive impact of corruption is being increasingly realized. It is seen to be anti economic development, anti-national and anti poor. The need for checking corruption in global business also emerged more or less simultaneously after the end of the cold war because, in the globalised economy, the need for ensuring good corporate governance was soon realized. Globalization involves the movement of four economic parameters, namely, (i) physical capital in terms of plant and machinery, (ii) financial capital in terms of the money invested in emerging markets, (iii) labour and (iv) technology move across national borders. International investors are increasingly realizing that it is not enough to have good corporate management, but it is necessary to have good corporate governance. Corporate management involves handling the resources available to a manager, namely, financial resources, physical resources and human resources and time in the best possible manner to achieve goals like increased profitability, market capitalization and so on. Nevertheless, it is possible for a company to have a good corporate management but fail to be

honest in its transactions leading ultimately

to disaster. Corporate governance, refers to the moral framework, the ethical framework and the value framework within which business decisions are taken. The collapse of the South East Asian tiger economies in 1997 followed by the New York stock exchange collapse of Fortune 500 companies like Enron, Worldcom and leading firms like Arthur Anderson showed that if there was no good corporate governance, then the healthy

business cannot take place. We are therefore living in a world where when it comes to public governance, the need for integrity and checking corruption is increasingly realized as very valuable. Even in business, the need for honesty is being underlined by the focus on the principles of corporate governance. Ultimately, corporate governance depends on three elements. First is transparency. Because, without transparency the second element of accountability cannot be enforced and accountability in the case of an enterprise is to ensure that the interest of the shareholders and stakeholders are protected and are not compromised.

It is against this overall context to the issue of corruption globally, we may look at India. When asked about corruption, Indira Gandhi dismissed the question by saying 'corruption is a global phenomenon'. It is true that corruption is a global phenomenon, practically every country has cases of corruption. But then there is a lot of difference between the degree of corruption between countries. The Transparency International, an NGO based in Berlin annually publishes the grading of the countries on the basis of what is called Corruption Perception Index (CPI). According to the 2005 CPI, India ranks at 88 out of the 156 countries. The least corrupt is Finland and the most corrupt country is Bangladesh. China figures at rank 78.

Tl 2005 Corruption Perceptions Index				
Country	Country	2005	Confidence	Surveys used***
	rank	CPI Score*	range**	•
1.	Iceland	9.7	9.5 - 9.7	8
2.	Finland	9.6	9.5 - 9.7	9
3.	New Zealand	9.6	9.5 - 9.7	9
4.	Denmark	9.5	9.3 - 9.6	10
5.	Singapore	9.4	9.3 - 9.5	12
6.	Sweden	9.2	9.0 - 9.3	· 12
7.	Switzerland	9.1	8.9 - 9.2	9
8. ·	Norway	8.9	8.5 - 9.1	9
9.	Australia	8.8	8.4 - 9.1	13
10.	Austria	8.7	8.4 - 9.0	9
11.	Netherlands	8.6	8.3 - 8.9	9
12.	United Kingdom	8.6	8.3 - 8.8	11
13.	Luxembourg	8.5	8.1 - 8.9	8
14.	Canada	8.4	7.9 - 8.8	11
15.	Hong Kong	8.3	7.7 - 8.7	12
16.	Germany	8.2	7.9 - 8.5	10
17.	USA	7.6	7.0 - 8.0	12
18.	France	7.5	7.0 - 7.8	11
19.	Belgium	7.4	6.9 - 7.9	9
20.	Ireland	7.4	6.9 - 7.9	10
21.	Chile	7.3	6.8 - 7.7 ·	10
22.	Japan	7.3	6.7 - 7.8	14
23.	Spain	7.0	6.6 - 7.4	10
24.	Barbados	6.9	5.7 - 7.3	3
25.	Malta	6.6	5.4 -7.7	5
26.	Portugal	6.5	5.9 - 7.1	9
27.	Estonia	6.4	6.0 - 7.0	11
28.	Israel	6.3	5.7 - 6.9	10
	Oman	6.3	5.2 - 7.3	5
30.	United Arab Emirates	6.2	5.3 - 7.1	6
31.	Slovenia	6.1	5.7 -6.8	11
32.	Botswana	5.9	5.1 - 6.7	8
	Qatar	5.9	5.6 - 6.4	5
	Taiwan	5.9	5.4 - 6.3	14
	Uruguay	5.9	5.6 - 6.4	6
36.	Bahrain	5.8	5.3 - 6.3	6
37.	Cyprus	5.7	5.3 - 6.0	5
	Jordan	5.7	5.1 - 6.1	10
39.	Malaysia	5.1	4.6 - 5.6	14
40.	Hungary	5.0	4.7 - 5.2	11
	Italy	5.0	4.6 - 5.4	9

	South Korea	5.0	4.6 - 5.3	12
43	T TM unisia	4.9	4.4 - 5.6	7
43.		4.8	4.5 - 5.1	
44.	Lithuania	4.7	4.0-5.2	6
45.	K uwait South Africa	4.5	4.2-4.8	11
46.	Czech Republic	4.3	3.7 - 5.1	10
47.		4.3	3.9 - 4.7	9
	Greece		3.8 - 4.9	8
	Namibia	4.3		10
	Slovakia	4.3	3.8 - 4.8	7
51.	Costa Rica	4.2	3.7 - 4.7	
	El Salvador	4.2	3.5 - 4.8	· 6
	Latvia	4.2	3.8 - 4.6	
	Mauritius	4.2	3.4 - 5.0	6
55.	Bulgaria	4.0	3.4 - 4.6	8_
	Colombia	4.0	3.6 - 4.4	9
	Fiji	4.0	3.4 - 4.6	3
	Seychelles	4.0	3.5 - 4.2	3
59.	Cuba	3.8	2.3 - 4.7	4
	Thailand	3.8	3.5 - 4.1	13
	Trinidad and Tobago	3.8	3.3 - 4.5	6
62.	Belize	3.7	3.4 - 4.1	3
	Brazil	3.7	3.5 - 3.9	10
64.	Jamaica	3.6	3.4 - 3.8	6
65.	Ghana	3.5	3.2 - 4.0	8
	Mexico	3.5	3.3 - 3.7	10
	Panama	3.5	3.1 -4.1	7
	Peru	3.5	3.1 - 3.8	7
	Turkey	3.5	3.1 - 4.0	11
70.	Burkina Faso	3.4	2.7 - 3.9	3
	Croatia	3.4	3.2 - 3.7	7
	Egypt	3.4	3.0 - 3.9	9
	Lesotho	3.4	2.6 - 3.9	3
	Poland	3.4	3.0 - 3.9	11
	Saudi Arabia	3.4	2.7 - 4.1	5
	Syria	3.4	2.8 - 4.2	5
77.	Laos	3.3	2.1 - 4.4	3
78.	China	3.2	2.9 - 3.5	14
	Morocco	3.2	2.8 - 3.6	8
	Senegal	3.2	2.8 - 3.6	6
	Sri Lanka	3.2	2.7 - 3.6	7
	Suriname	3.2	2.2 - 3.6	. 3
83.	Lebanon	3.1	2.7 - 3.3	4
	Rwanda	3.1	2.1 - 4.1	3
85.	Dominican Republic	3.0	2.5 - 3.6	6
~	Mongolia	3.0	2.4 - 3.6	4

	Congo, Republic of	2.3	2.1 - 2.6	4
	Georgia	2.3	2.0 - 2.6	6
	Kyrgzstan	2.3	2.1 - 2.5	5
	Papua New Guinea	2.3	1.0 - 2.6	4
	Venezuela	2.3	2.2 -2.4	10
137.	Azerbaijan	2.2	1.9 - 2.5	6
	Cameroon	2.2	2.0 - 2.5	6
	Ethiopia	2.2	2.0 - 2.5	8
	Indonesia	2.2	2.1 - 2.5	13
	Iraq	2.2	1.5 - 2.9	4
	Liberia	2.2	2.1 - 2.3	3
	Uzbekistan	2.2	2.1 - 2.4	5
144. Cong	o, Democratic Republic	2.1	1.8 - 2.3	4
	Kenya	2.1	1.8 - 2.4	8
	Pakistan	2.1	1.7 - 2.6	7
	Paraguay	2.1	1.9 - 2.3	7
	Somalia	2.1	1.6 - 2.2	3
	Sudan	2.1	1.9 - 2.2	5
	Tajikistan	2.1	1.9 - 2.4	5
151.	Angola	2.0	1.8 - 2.1	5
152.	Cote d'Ivoire	1.9	1.7 - 2.1	4
	Equatorial Guinea	1.9	1.6 - 2.1	3
	Nigeria	1.9	1.7 - 2.0	9
155.	Haiti	1.8	1.5 - 2.1	4
	Myanmar	1.8	1.7 - 2.0	4
	Turkmenistan	1.8	1.7 - 2.0	4
158.	Bangladesh	1.7	1.4 - 2.0	7
	Chad	1.7	1.3 - 2.1	6

corrupt).

** Confidence range provides a range of possible values of the CPI score. This reflects how a country's score may vary, depending on measurement precision. Nominally, with 5 percent probability the score is above this range and with another 5 percent it is below. However,

country's score may vary, depending on measurement precision. Nominally, with 5 percent probability the score is above this range and with another 5 percent it is below. However, particularly when only few sources (n) are available an unbiased estimate of the mean coverage probability is lower than the nominal value of 90%.

***Surveys used refers to the number of surveys that assessed a country's performance. 18

surveys and expert assessments were used and at least 3 were required for a country to be included in the CPI.

From the ranking of India in the Corruption Perception Index, it is obvious that India is one of the more corrupt countries in the world. But then, India as a country suffers as a result of corruption. Corruption is anti-economic development, anti-national and anti-poor. The 1999 UNDP Report pointed

out that if India's corruption level comes down to that of the Scandinavian countries, the GDP will grow by 1.5% and FDI will increase by 12.5%. In the year 2001, the PHD Chamber of Commerce got a study made and it showed that if the corruption level comes down by the standard deviation of

15%, then investment will increase by 300% and GDP will grow by 1.9%. A closer look at the cost of corruption so far as the common man is concerned, is brought out in a study made by the India chapter of the Transparency International and the Centre for Marketing and Media Studies in Delhi. The highlights of the 2005 studies are as follows:

The eleven public services covered in this study are: Police (Crime/Traffic), Judiciary (Lower Courts), Land Administration, Municipal Services, Government Hospitals, Electricity (Consumers), PDS (Ration Card/Supplies), Income Tax (Individual Assessees), Water Supply, Schools (upto 12th Std.) and Rural Financial Institutions (Farmers).

Rs. 21,069 crore in bribe

According to the study, common citizens of the country pay a bribe of Rs.21,069 crore while availing one or more of the eleven public services in a year. As high as 62 per cent of citizens think that the corruption is not a hearsay, but they, in fact, have had firsthand experience of paying a bribe or "using a contact" to get a job done in a public office.

Three-fourths of citizens think that the level of corruption in public services has increased during the last one year (2004-2005). Hardly ten percent think that such corruption is on the decline. There are no significant differences among the States in the perceptions about the extent of corruption or in their experience with such corruption.

This study brings out that one-third to half of the compulsions leading to such petty corruption involving the common man could be addressed and also removed with simple initiatives, including introduction of technologies.

Corruption is not merely in the media or in the minds of people as it is sometimes made out, but it is in the system all across the public services, that is what this study high-

lights. And the users and providers of those public services know what needs to be done to address the problem which this study has brought out.

According to this study, relatively Police

stands out high on the corruption score. Judiciary, Lower Courts and Land Administration are rated next. The corruption in Government Hospitals is mostly to do with non-availability of medicines, getting admission, consultations with doctors and availing of diagnostic services. Despite reforms, electricity services figure high on corruption score. PDS figures lower in the corruption score because the problem of common man dealing with services is more to do with leakages in the system rather than direct monetary corruption.

Going by the composite ranking of States

on corruption involving common citizen and in the context of eleven Public Services, Kerala stands out as the least corrupt State in India. Bihar, on the other, is the most corrupt State. Jammu & Kashmir is next only to Bihar. In fact, perhaps not surprisingly, on all parameters and in the context of all the eleven Services, Bihar stands out far ahead as the most corrupt State. Himachal Pradesh in contrast comes out as being less corrupt when compared to States like Tamil Nadu, Maharashtra or Gujarat. Madhya Pradesh, Karnataka, Rajasthan and Assam, on the other hand, also are on the top of corruption scale.

An overwhelming majority of citizens are vocal about the absence of transparency and accountability in the delivery of these services. They are full of anguish and, at times, some are angry at the state of affairs. It is evident from the annual CMS surveys on corruption that the use of technology at the frontend of those offices is likely to bring down corruption with increase in transparency.

One-sixth of public think that citizen users of Government services themse are responsible for corruption. They belt that there is no active and sustained co

, ## ~

society movement. The efforts are sporadic, localized and short-lived and have never acquired a character of a larger movement.

Users of various public services across the

country in this study have named seven key factors that stand out as responsible for a widespread corruption in the system. These include-

- * Lack of transparency and accountability in the system
- * Lack of an effective corruption reporting mechanism
- * Lack of honesty in officials in the Government
- * Acceptance of 'Bribe' as a way of life, custom and culture
- * Ineffective anti-corruption institutions, including Police and judiciary
 - * Poor economic policies
- * Inadequate training and orientation of Government officials.

Not all states are equally corrupt. The study has also made a ranking of 20 states in India on the basis of corruption and this can be seen as follows.

State	Composite	Rank
	Score	
Kerala	240	1
Himachal Pradesh	301	2
Gujarat	417	3
Andhra Pradesh	421	4
Maharashtra	433	5
Chhattisgarh	445	6
Punjab	459	7
West Bengal	461	8
Orissa	475	9
Uttar Pradesh	491	10
Delhi	496	11
Tamil Nadu	509	12
Haryana	516	13
Jharkhand	520	14
Assam	542	15
Rajasthan	543	16

576

17

Bihar	695	20
J&K	655	19
MP	584	18

This brings us to the basic issue, Is it possible to make India corruption-free? As Central Vigilance Commissioner from September 3, 1998 to September 2, 2002. I faced with this problem day in and day out for four years. Based on my experience, I can aroue that there is no need to lose hope. India can become a corruption-free country. The first point to realize is that there have been countries which had this problem like India in corruption, and have been able to turn around and tackle corruption effectively. Britain itself was a corrupt country and one prime minister William Gladstone between 1864 to 1892 became prime minister four times and during his tenure was able to introduce so many changes in law and the system that by the end of his tenure, Britain had become a less corrupt country. In our own life time we have seen Lee Quan Yew as prime minister for more than three decades in Singapore transforming that country as one of the cleanest in the corruption perception index today. Hong Kong was once notorious for corruption. In 1974, the Independent Commission against Corruption (ICAC) was set up and that organization has been able to bring a dramatic change in bringing down corruption in Hong Kong. When in 1997, Hong Kong merged with main land China, there was a fear that the level of corruption may be increased. But on the contrary the mainland Chinese government seems to be keen on learning from Hong Kong and trying to tackle the issue of corruption to maintain the phenomenal economic growth of China. In the Transparency International's Corruption Perception Index list, China emerges as less corrupt than India. Hence the first idea for us to internalize is that

Karnataka

orruption can be tackled. Other countries nave done it.

The Vicious Cycle

The second point is to realize the dynamics of corruption and tackle the root causes. Corruption in India is the result of the vicious cycle starting with political corruption leading to bureaucratic corruption, business corruption, corruption in NGOs and finally the criminalization of politics. Corruption in India owes a lot to the fact that the democratic system we have adopted involves political parties collecting funds for election and other purposes. All political parties collect funds in cash. This is black money. Black money is the oxygen for corruption and corruption is oxygen for black money. Hence a political system which is dependent on black money can never take the initiative to fight corruption. It is the political corruption which lies at the starting point of the vicious cycle of corruption in our country. Bureaucratic corruption is a result of a number of factors. The permit licence rai for more than four decades after independence was a fine breeding ground for corruption and the root cause of corruption in the licence era were scarcity of goods and services, lack of transparency, the bureaucratic red tape and consequent need for speed money, the legal cushions of safety that has been created on the very healthy principle that everybody is innocent till proved guilty which was only exploited by the corrupt and finally the tribalism among the corrupt. The business corruption flourish because in the permit licence raj, the only way of influencing the politicians and bureaucrats was by corrupt means. The recent phenomenon of the NGOs also shows that even this sector is not free from corruption. This all pervasive corruption has resulted in the loss of the legitimacy of the state institutions giving rise to criminalization in politics.

The recent directives of the Supreme

Court under which, candidates to election have to declare their criminal background has brought out the shocking fact that a significant percentage of the members of the legislature, may be around 20% have criminal cases framed against them in courts. If law breakers become law makers, then how can good governance be ensured?

Corruption is the antithesis of good gov-

ernance. Good governance involves the rule of law. Corruption corrodes the very process of rule of law and distorts it. In our constitution there are three pillars for the governance of the state. The legislature makes the law. The judiciary interprets the law and the executive, which is both the permanent bureaucracy as well as the prime minister, chief minister and the council of ministers execute the law. The very presence of law breakers in the legislature results in a very peculiar situation in our country, where laws which are ensured to check, for example, the growth of the black money, are not implemented at all. The 1988 Benami Transaction Prohibition Act still remains a dead letter, because the rules for implementing it have not been framed even after 18 years. Even when a law is passed for preventing money laundering, the laws like Customs Act, Excise Act, Income Tax Act, the evasion of which results in generation of black money which leads to corruption are left out of the schedule of the Act. As a result, the Prevention of Money Laundering Act is an ineffective Act. The Income Tax Act. Excise Act etc. have got so many exemptions that they confer tremendous discretion on the authorities / powers which are misused for corruption. We can therefore think in terms of a systematic approach to tackle the issue of corruption by breaking the vicious cycle starting with political corruption on to bureaucratic corruption, business corruption and criminalization of politics and so on.

For checking political corruption, the

dgorously implemented. The transaction aws like the Income Fax, Customs, Excise hould be made almost zero exemption aws so there is no question of exemption ind the transparency element is enhanced. To prevent criminalization of politics, it is recessary to ensure that those candidates igalnst whom criminal charges have been ramed in court, where a legal application of the mind of the magistrate had taken place, should be prevented from contestng elections till they are cleared by the courts. Today, the delay in the legal system s exploited by the criminals to enter polliles to save themselves. The very delay in the judicial system needs to be tackled and made to work against the criminals politics. These measures will go a long way in reducing the scope of corruption at the political level. Another reason why corruption flourishes in our country is because our Judicial processes are very time-consuming and slow. The conviction rate in our criminal courts is hardly 6%. Therefore, corruption has become a low risk, high profit business in India. To overcome this, the simple method will be to have the time limit of maximum six months for corruption cases in the trial stage and in the appeal stage. Only one appeal must be allowed. Summary trial procedures must be adopted. As a result, criminal cases get their final decision within one year. This will go a long way in ensuring that the corrupt are punished quickly, A Three-point Strategy Bureaucratic corruption can be tackled if

tarting point should be the attack on black

noney and reform of the campaign fund-

ng laws. To reduce the element of black

noney, laws like the Benami Transaction prohibition Act which were designed to

theck the use of black money must be

adopted: (i) simplification of rules and procedures so that the scope of conuption is reduced, it is the complicated rules which give tremendous powers to the bureaucracy in interpretation that is the root of mischief. Simple rules can be the first step forward. The five point strategy in the industrial engineering of elimination, combination, re-sequencing, substitution and modification can be adopted to all the rules in existence and this will go a long way in bringing a systematic simplification of the entire set of rules, in fact, one problem we have in our country is the lack of the sunset clause in our laws, so that laws continue to be on the statute book long after their relevance has passed. These broad measures should go a long way in cleaning up our system.

(ii) The second element of the three point strategy should be transparency and empowerment of the public, it is a very happy development that the current UPA government which came to power in 2004 has passed the Right to Information Act. As Aruna Roy and other leaders like Anna Hazare, Dr. Jayaprakash Narain have pointed out, the very right to information can be a powerful tool for empowering citizens to ask questions and bring greater transparency in the system and sunshine is the best antidote for corruption. This comblined with widespread application of information technology can result in significant reduction of corruption. For instance, three significant cases of IT application in India which have led to improvement are remarkable. First of course, is the two decade old computerization of the Railway passenger reservation system. The second is the use of IT in electronic voting machines. The third is the National Stock Exchange which emerged as the third biggest stock exchange in the world, after the New York Stock Exchange and NASDAQ,

the following three point strategy is

based on the satellite communication system. So IT applications and e-governance will bring in greater transparency, easier access for citizens for their rights to information and in the way help in bringing down corruption.

(iii) The third important aspect is prompt punishment of the guilty. In fact, as Central Vigilance Commissioner I found that even after the CVC had given its recommendation after due enquiry, the disciplinary authorities were not taking action because, there way a delay in the system or there was a tendency to protect the corrupt. Once the matter was taken up directly with the authorities there was some improvement.

Sense of Values

After all, the level of corruption in any country depends on three factors. The first is the individual's sense of values. This is shaped by parents at home, the educational system, teachers, peers and religion. A value- based education system is available today only in institutions run by religiously inspired organizations like the Ramakrishna Mission, DAV schools or the Society of Jesus. The Government of India's adoption of the secular approach has resulted in the deemphasizing of the values in the education system and as a result perhaps contributed to the development of a cynical generation which believes in the philosophy of *get on, get honor and get honest".

The second factor that affects the level of corruption in any country is the social set of values. Over the years, in this country, corruption has become respectable. This is because of the all pervasive black money and the contribution to black money made by the respective professionals like those in the medical profession, legal profession and auditing and contribution to black money made

declare their full income and so tax evasion and creation of black money has become respectable in our country.

The third factor is the system. In fact, in the preceding paragraph, I tried to highlight what specific steps could be taken so far as the system is concerned to tackle political corruption and bureaucratic corruption. Tackling these two will go a long way in cleaning up the other sectors involved in corruption like criminals, business as well as NGOs.

In fact, I would like to end this on an optimistic note. The Supreme Court has forced the candidates to declare their criminal background, educational qualification and wealth details and this is the first step to bring in greater transparency in the political system and allow citizens empowered by knowing the correct facts about their representatives. The Right to Information Act is another good step taken and this combined with the initiative for e-governance should go a long way in improving transparency in our system and empowering the people. The increasing presence of the youth in the country and the nsing levels of education should help in ultimately building a corruption free India in the years to come and in achieving this goal, as 400 have adopted a democratic system, whose practise the advice of the eternal latings Upanishad.

Let us come together. Let us enjoy regether. Let our strengths come together. Let us move from discression upon our avoid the twin danger of the proportion misunderstanding and natural from any exists real progress.

Sahana vavalu Satist su tri al acco Saha Varyatti kata i al ali Tejas vina madutia vati i Ma vidi i tra e Om Shantil State (1888)

dileithine edinones



Dr. M. A. Varghese Newcastle, U.K.

■homas Malthus was an English economist who lived during the period 1766-1834. In his essay on population and its effects on society he put forward the theory that population growth will always outrun the food supply and that betterment of mankind is impossible without control of reproduction. Malthusian theory persuaded later economists and planners to promote family planning and contraception. Today in spite of population growth all developed countries are self sufficient and most developing countries are basically self-sufficient in food supply. If Malthus lived in present century he would have modified his theory that health care and social security costs rather than food supply as the priority for any developed nation.

Life Expectancy

Life expectancy at birth is the average number of years a person may live according to the mortality patterns prevalent in a country. It is one of the best indicators of a country's level of development and overall health status of the population. Malthus lived at a time when the average life expectancy at birth was about 40 years in England compared to 77.5 years today. Malthus was lucky enough to have lived 68 years in the pre-antibiotic era. Today, in the 21st century, thanks to the advancements in prevention, diagnosis and treatment life expectancy has improved both in developed and developing countries. Now with the advent of the new genetic knowledge average life expectancy is predicted to be around 90 years at least in the wealthier nations.

Twentieth century has seen some of the greatest advances in science and medicine. Antibiotics, insulin, vaccines, transplant medicine, renal medicine, scanning technology, cardiovascular medicine and cancer treatment are some of them. Increased life expectancy due to these advances in medicines has resulted in a large elderly population living with chronic diseases or disabilities. This has great social, political and economic consequences. In a welfare state the government has a duty to look after its citizens from cradle to grave. Apart from the cost of expensive medicines and treatment for chronic diseases. the cost of social services, social security and old age pension is also to be considered in the context of economics and health.

The idea of "Welfare State" means different things in different countries. In the ideal model the state accepts responsibility for the provision of comprehensive and universal welfare for its citizens. This includes: Social services, Social security, Health care and Old age pension.

In Europe, Germany was the first country to start a social security under its first chancellor Otto Bismarck in 1879. Inspired by the social changes in Germany Lloyd George, prime minister of Britain from 1916 to 1922 laid the foundation of British welfare state by starting health and unemployment insurance through national insurance act. But the architect of the post World War II welfare state of Britain is William Beveridge. Beveridge was an economist and civil servant and his comprehensive report to the then government was

the blue print for the modern welfare state. National Health Service is considered to be the jewel in the crown of British welfare state and was founded by the then Labour health minister Aneurin Bevan in 1948.

British Welfare System

Following is a brief account of the British welfare state. The system is funded by taxation and national insurance. The basic rate of tax in UK is 22% and higher rate is 40%. In addition there is compulsory National insurance contribution for both and employers and employees. Also there is a local government tax known as council tax and is dependent on the size of the house. About 50% of the national budget is spent on health, social security and local government services.

British health care system is based on the family doctor principle. Every citizen in UK has to be registered under a family doctor otherwise called as General Medical Practitioner. Average list size of general practitioner is 2000 patients in England. General practitioner is the team leader for the primary care team. Other members of the team are health visitors, midwives, district nurses, community psychiatric nurses and practise nurses. General practitioners practice from small clinics or purpose built health centers. The average general practitioner sees about 30 patients per day. In addition there is house visits for the elderly and house bound patients. Considerable time is spent on prevention and a General Practitioner's remuneration is based on list size and attainment of certain targets in chronic diseases like diabetes, heart disease, asthma and stroke. Hospitals provide specialist services for patients referred by the General Practitioners. There is no direct access to specialist services with the exception of accident and emergency services and Sexually Transmitted Diseases. Average waiting time to see a specialist is 2-3 months with the exception of suspected cancer, heart disease and certain conditions marked as urgent by General Practitioner. One negative aspect of the British system is the long waiting time to see a specialist and the longer waiting time for routine surgical procedures. In spite of these problems the British system is unique in that every citizen in UK, whether rich or poor, is provided with free medical care based on the clinical need rather than the ability to pay for the service. Though Britain is a capitalistic society one can say that there is socialism in medical care. Private medical care is very rare in UK and is used mainly for less urgent surgical procedures with long waiting lists. In general the vast majority of the population relies on the National Health Service. Unlike countries with private insurance system with provision of care in private hosnitals there is no element of commercialization of health care in NHS.

Another aspect of welfare state is social security system giving financial help for unemployed in the form of job seekers allowance, housing benefit, sickness benefit, child benefit, maternity benefit, disability benefit and attendance allowance. People on state benefits, children, elderly and the unemployed are eligible for free prescriptions for any illness. While the health care and social security are under the central government social services are under local government also called county council or district council. School, social service, fire service, ambulance, police, environmental health, housing for the poor and facilities for recreation are some of the functions of the local governments Social services provide services for the elderly, children at risk, young disabled and the mentally ill. All developed countries have higher elderly population living with multiple disabilities. It is the duty of the social services to make sure that their needs are met. Many elderly people live alone with the help of carers from social services Residential and nursing homes look after the very old who are unfit to live

alone. Though most of the care homes are now private, social services pay for the poor elderly who cannot afford to pay. Some aspects of the services for the elderly like home help, meals on wheels (delivery of mid-day meal) and care homes are means tested.

In UK state pension age for men is 65 years and 60 years for women. State pension is very basic and hence additional pensions in the form of occupational pension and private pensions are essential for a comfortable retirement. Self-invested personal pension scheme or SIPPS is the latest private pension scheme introduced by the government to encourage the public to save for the retirement.

Wealth of a nation is dependant on the industrial output of the country. Doctors and nurses who work in the industrialized countries are familiar with the industrial diseases like pneumoconiosis, asbestosis, certain types of cancers, deafness, asthma, chronic bronchitis, dermatitis and stress related illness. In the 21st century there are preventive measures to deal with these problems and also compensation for those who develop these illnesses. But in the 19th and early 20th century the conditions in the factories and mines were dangerous and unhealthy. The Socialist movement was very active in Europe during that period. The policymakers of Western Europe were very keen to prevent a Marxist revolution as in Eastern Europe and hence the birth of the welfare state. In the present century all the developed nations have varying level of welfare systems. In general countries in the Westem Europe have a more comprehensive level of welfare programmes than USA. In the USA health care is funded by private insurance which is usually done by employers. It is estimated that there are about 46 million people without any form of insurance. These are people with the lowest income and people with chronic diseases for whom private health insurance is unaffor-dable. There are state funded health care programmes for these people and also charitable health care but the standard of care is not ideal and varies between the states.

Regulatory Bodies

One notable feature of any developed country is the regulatory bodies and system to protect the public from wrong treatmen by incompetent and unethical doctors. Ir UK the newly qualified doctor has to undergo a minimum of four years training before practicing as a GP and specialist training being much longer. Lifelong learning and annua appraisal is a requirement now and five yearly revalidation is going to be mandatory for al practising doctors in UK. National Institute of Clinical Excellence provides guidance and information on evidence based medicine and it is free for all doctors. Clinical governance is a new word in British medicine and it aims to achieve the highest standards in medical practice. Complaints procedure and medical indemnity insurance are other aspects which protect the public from wrong treatment or medical nealigence.

Chronic diseases like stroke, cancer, kidney disease, heart disease and AIDs are a financial burden for the developed and developing countries. In addition there is a rising elderly population who needs medical and social care. At present there are no ideal solutions to the problems. There are many expensive drugs for chronic diseases with the possibility of prolonging life or even "CURE" in some condi-In developed countries with private health care system the insurance premium goes up if a person develops a chronic disease or the person becomes uninsurable in some cases. In health care system funded by taxation, increased taxation remains the only option to provide a comprehensive level of cover-The state of affairs in developing countries is no comparison to the developed countries. Though there are free government funded health services in many poor countries the facilities are very basic and cannot provide high standard of care as in developed countries. India has made great progress in health care over the last 20 years mainly in the private sector. Though the public spending in health care in India is among the lowest in the world India is in the top league for private spending, among the top 20 countries in the world. This has encouraged medical tourism from wealthier countries including UK and USA. Unfortunately high quality health care is unaffordable

for the local population and the average person is not covered by private insurance and hence ordinary people have to sell their assets to get treatment if they develop life threatening illness. The concept of welfare state remains a dream for most developing countries. Probably the world needs more Bill Gates models of charity to save the developing countries and the poorer section of the developed countries.

all of the collability of the co

Dr. B.A. Prakash

Head, Department of Economics, University of Kerala

rince the mid 1970s a large number of Indian workers have migrated to the West Asian countries for employment. The migration which started with a few thousands per year during the mid 1970s assumed large proportions during 1980s and 1990s. The Report on High Level Committee has estimated the total Indian migrants in the Gulf countries viz. Bahrain, Kuwait, Libya, Oman, Qatar, Saudi Arabia, UAE and others as 30 lakh in 1999. According to the committee, Saudi Arabia had the largest number of Indian migrants (12 lakh) in the Gulf region. Migration to the West Asian countries is crucial because India is receiving a large amount of workers' remittances every year.

Categories of Migrants

Different categories of people migrate for different purposes. Migrants are classified into the categories such as foreigners admitted for special purposes; settlers; migrant workers, economic migrants and asylum migrants. The foreigners admitted for spe-

cial purposes are foreign students, foreign trainees and foreign retirees. Settlers are persons who are granted the right to stay indefinitely in the territory of a country other than their own and to enjoy the same social and economic rights as those of the citizens of that country. Migrant workers are persons admitted by a country other than their own for the explicit purpose of carrying out an economic activity. The category of migrant workers includes seasonal migrant workers, project-tide migrant workers, contract migrant workers, temporary migrant workers, established migrant workers and highly skilled migrant workers. A unique characteristic of migration to Gulf is contract type.

Contract migration occurs when a worker is officially granted permission to enter another country and take up employment in a given job and where a contract is entered into on his behalf or between him and the employer or enterprise for which he is to work. Contract itself takes several forms like individual contract and collective contract. In contract migration, return is an essential

part of the migration process. Here the workers are hired for contractual jobs for a definite time period and expected to return after the expiry of the period. Usually during the period of stay abroad they leave their families behind in their home country. In order to support their family, the emigrants send remittances on a regular basis. The economic impact of contract migration will be substantial on the domestic economics of the labour exporting countries compared to the settlement type of migration.

Labour Market situation in the Gulf countries

The discovery of vast resources of oil and their exploitation since the late 1960s is the basic and driving force that has been responsible for the phenomenal changes that have taken place in most of these countries in the last four decades. Saudi Arabia, for instance, is credited with having 25% of the proven oil reserves of the world. Most of the other Gulf states have enough oil resources to keep their relatively small economies on the path to prosperity. The rise in oil prices in 1973 led to a very rapid increase in the revenues accruing to the oil producing countries of the Gulf. This accelerated a process of industrialization and social change in these countries characterised by massive investment in social and economic infrastructure necessitating the services of large number of foreign workers.

The entire region is sparsely populated, Saudi Arabia and Iraq being the only Gulf countries with relatively large populations of almost 22 and 23 million, respectively. As for the others, the corresponding figures range from barely half a million to about two and a half. Consequently, these countries experienced an acute shortage of workers. This shortage is all the more endemic in the case of professionals like highly qualified doctors to man their well-equipped hospitals, as well

as engineers, architects, chartered accountants, bankers etc. There is also a tremendous dearth in these countries of highly skilled and even semi-skilled and unskilled workers. Such personnel are essential for the construction of the new housing, commercial and industrial structures and for the implementation of numerous other infrastructure schemes. To meet these demographic and skills shortages, the region has had to import hundreds of thousands of personnel from many other countries.

As the Arab nationals prefer employment in well-paid government positions, they have ensured that they would have the assistance of qualified foreign technicians and experts to perform the risks that they themselves ought to be doing. There is reluctance on the part of most citizens in the Gulf to undertake any semi-skilled, unskilled or menial jobs and a huge foreign workforce has had to be recruited to develop infrastructure and other development projects. There are no ceiling for the recruitment of domestic help such as housemaids, gardeners, cooks, bearers and such other personnel. In fact, there has been an unfortunate mismatch between the large scale unemplayment of such workers in their home countries and the enormous demand for them in the Gulf. The result has been a tendency on the part of employers in some of the countries of the region to treat their domestic help with scant regard for their welfare.

The highly paid professionals are also usually fortunate enough to be permitted to take their families with them to the Gulf as their monthly emoluments are more than the variously prescribed minimum. On the other hand, the low paid categories of workers are not allowed to bring their families with them. The low paid workers particularly those who are semi-skilled or unskilled, are accommodated in crowded labour camps

in small rooms with four to eight bunker require emigration clearance are mostly farm

Foreign nationals are not permitted to own any business or immovable property in the Gulf countries. They are required to make a local citizen or entity a majority even if sleeping partner in their enterprises. With

this type of an arrangement they were able

to promote investment, production and gen-

eration of new wealth. Citizenship is almost

beds. The facilities provided to them such as

toilets and kitchens are inadequate and un-

satisfactory. Generally, the living conditions

and amenities provided by the large corpora-

tions are better than the facilities extended by

small companies and individual employers.

universally not granted by the Gulf countries to foreign nationals. Hereditary monarchial regimes have traditionally administered all the Gulf countries. Even though some of them may have features such as an elected legislature or an Advisory Council, the executive and legislative powers invariably vest in the hereditary monarch in each of them.

We do not have accurate data relating to annual outflows or return flows of Indian labour and stocks of Indian emigrants in different foreign countries. The basic source of statistics about labour outflows is the data provided by the Protector General of Emigrants (PGE) in the Ministry of Labour of the

Trends in Indian Emigration to the Gulf

Government of India. In the absence of wellregulated rules and procedures for recruit-

ment, we find the statistics on emigration clearance and employment abroad and the annual outflows for the period till 1983, quite unreliable. After the implementation of the Emigration Act 1983, the collection of statistics on migrant flows became more

systematic. But the exclusion of a number of

categories of emigrants due to exemption

given under Emigration Check Not Required

(ECNR) has resulted in the partial coverage

of the labour outflows. The workers who

emigration clearance are educated, trained. gazetted government servants, income tax payers, professional degree holders, persons who had stayed abroad for more than three years and professionals such as supervisors and skilled workers. Owing to these reasons, the data on the labour outflows

give only a partial account of the emigrants

Based on data of the annual outflows of

from India.

workers, but include unskilled, low skilled

and semi-skilled categories of workers also.

The categories of persons exempted from

labour from India between 1984 and 1999, we divide the period into three phases. The first phase covers the period between 1984 and 1991, which witnessed an annual volume of emigration ranging between 1.14 lakh and 2.06 lakh. The second phase is the first half of the 1990s (1992-1997) when the annual outflow of labour was more than 4 lakh. The third phase started since 1998 when a fall began in the annual volume of emigration (Table 1).

Table 1: Number of Workers Granted Emigration Clearance, India

Үеаг	Number of	Growth (%)	
	workers		
	(in lakh)		
1984	2.06	•	
1985	1.63	-20.87	
1986	1.14	-30.06	

1984	2.06	
1985	1.63	-20.87
1986	1.14	-30.06
1987	1.25	9.65

1988 1.70 36.00 1989 1.26 -25.881990 1.44

14.29 1991 2.02 40.28

1992 4.17

106.44 4.38 5.04

4.14

4.16

-0.24

0.48

1993 1994 4.25

-3.06 1995 4.15 -2.41

1996

1997

1998	3.55	-14.66
1999	1.99	-43.94
2000	2.43	22.11
2001	2.78	14.40
2002	3.68	32.37
Source: Various	Annual Reports of Min	istry of Labour,

Source: Various Annual Reports of Ministry of Labour Govt. of India

The major reasons for the sharp decline in Indian migration since 1998 to the Gulf may be attributed to the drastic changes in the immigration policies of the host countries. aimed at reducing the inflows of foreign workers, the recession in the Gulf economies and the saturation of labour markets of the unskilled and semi-skilled categories. These countries began to follow a policy of replacing many categories of foreign workers with their native workforce. They introduced. what is known as a demographic balance policy, a policy of not allowing foreign workers of any single country to dominate the migrant workforce in a given destination country.

Destination

The important destinations of Indian migrants to West Asia during the 1980s were Saudi Arabia, United Arab Emirates (U.A.E.), Oman and Bahrain. Table 2 gives the number of workers granted emigration clearance by destination. By 1990s, Saudi Arabia became the destination of majority of Indian emigrants. The destination of nearly one-fourth of Indian emigrants was Oman dur-

ing the year 1990. During 1990s a substantial change was visible in the directions of the flow of emigrants to West Asia. During the late 1990s the annual flow of unskilled and semi-skilled categories registered a decline in Saudi Arabia, U.A.E., Oman and Bahrain. On the other hand, there has been an increase in annual flow of unskilled and semi-skilled workers to Kuwait. But the available data suggest that there has been a spurt in annual flow of the unskilled and semi-skilled categories in the year 2002 compared to the previous years.

The major categories of workers who migrated include unskilled and skilled construction workers and other skilled workers. The skilled construction workers comprised categories such as carpenter, electrician, fitter, foreman, mason, painter, plumber, welder, surveyor, and supervisor. The other skilled workers include cook, driver, mechanic, machine operator, and tailor. The rest included engineers and technicians, paramedical staff and office staff.

A state wise break up of the number of workers granted emigration clearance shows that Kerala, Tamil Nadu, Andhra Pradesh, Maharashtra, Rajasthan and Punjab are the States from where large number of persons has migrated to the Gulf. Table 3 gives the statewise distribution of number of workers granted emigration clearance between 1995 and 2002

	Table 2:	Number o	of Workers	Granted E	migration	Clearanc	e by Desti	nation	
Country	1990	1995		1997	1998				2002
Bahrain	6,782	11,235	16,647	17,944	16,997	14,905	15,909	16,382	20,807
Kuwait	1,077	14,439	14,580	13,170	22,462	19,149	31,082	39,751	4,859
Oman	34,267	22,338		29,994	20,774	16,101	25,155	30,985	41,209
Saudi Arabia		10071000		2,14,420	1,05,239	27,160	59,722	78,048	99,453
U.A.E.	11,962		1,12,644	1,10,945	1,34,740	79,269	55,099	53,673	95,034
Others	10,004	30,866		29,951	54,952				
Total	1,43,565	4,15,334	4,14,214	4,16,424	3,55,164	1,99,552	2,43,182	2,78,664	3,67,663

Source: Various Annual Reports of Ministry of Labour, Govt. of India

Maharashtra	26,312	25,214	25,146	24,657	9,871	13,346	22,713	25,477
Punjab	11,852	11,751	{ 12,414	26,876	15,167	10,025	12,422	19,638
Rajasthan	28,374	18,221	28,242	19,824	9,809	10,170	14,993	23,254
Tamil Nadu	65,737	64,991	63,672	69,793	47,402	63,878	61,649	79,165
Others	53,650	62,956	52,174	80,160	32,588	35,207	57,913	85,701
Total	4,15,334	4,14,214	4,16,424	3,55,164	1,99,552	2,43,182	2,78,664	3,67,663
Source: Variou	is Annual Rep	orts of Mini	istry of Labo	our, Govt. of	India			
Source: Various Annual Reports of Ministry of Labour, Govt. of India Stock of Indians in the Gulf According to an estimate of the High Level Committee on Indian Diaspora, the number of Indian migrants increased from 5.31 lakh in 1979 to 15.05 lakh in 1991 and to 30 lakh in 1999. According to this committee Saudi Arabia, U.A.E., Oman, Kuwait and Bahrain are the major destinations of Indian migrants in Gulf region (Table 4).								
Accordin Level Commumber of I 5.31 lakh in	g to an es nittee on I ndian mig n 1979 to	stimate of ndian Dia rants incre 15.05 lak	spora, the ased from	h come e Kuwa n tions 1 (Tab	mittee Sa ait and Ba of India le 4).	audi Arab ahrain are an migrai	ia, U.A.E. the major nts in Gu	, Oman, destina-
Accordin Level Commumber of I 5.31 lakh in	g to an e nittee on I ndian mig	stimate of ndian Dia rants incre 15.05 lak	spora, the ased from	h come e Kuwa n tions 1 (Tab	mittee Sa ait and Ba of India le 4).	audi Arab ahrain are an migrai	ia, U.A.E. the major nts in Gu	, Oman, destina-
Accordin Level Commumber of I 5.31 lakh in	g to an es nittee on I ndian mig n 1979 to	stimate of ndian Dia rants incre 15.05 lak	spora, the ased from the in 199	h come e Kuwa n tions 1 (Tab	mittee Sa ait and Ba of India le 4). the Gulf R	audi Arab ahrain are an migrai	ia, U.A.E. the major nts in Gu	, Oman, destina-
Accordin Level Comm number of I 5.31 lakh in	g to an es nittee on I ndian mig n 1979 to	stimate of ndian Dia rants incre 15.05 lak timates of	spora, the eased from th in 199 Indian M	h come e Kuw n tions 7 (Tab	mittee Sa ait and Ba of India le 4).	audi Arab ahrain are an migrai egion 197	ia, U.A.E. the major nts in Gu	, Oman, r destina- If region
Accordin Level Commumber of I 5.31 lakh in	g to an es nittee on I ndian mig n 1979 to	stimate of ndian Dia rants incre 15.05 lak timates of 1979	spora, the eased from th in 199	h come e Kuw n tions 1 (Tab igrants in 1	mittee Sa ait and Ba of India le 4).	audi Arab ahrain are an migrai egion 197 1991	ia, U.A.E. the major nts in Gu	, Oman, r destina- lf region
Accordin Level Commumber of I 5.31 lakh in Countries Bahrain	g to an es nittee on I ndian mig n 1979 to	stimate of ndian Dia rants incre 15.05 lak timates of 1979 26,000	spora, the eased from the in 199 Indian M	h come e Kuw n tions 1 (Tab igrants in 1 1983 30,000	mittee Sa ait and Ba of India le 4).	eudi Arab ahrain are an migrai egion 197 1991 1,00,000	ia, U.A.E. the major nts in Gu	1999

1,00,000

2,70,000

2,50,000

9,16,000

21,000

40,000

Table 3: Number of Workers Granted Emigration Clearances by Major States 1998

30,599

11,535

91,720

1997

38,278

40,396

1,56,102

1996

29,995

33,761

1,67,325

1995

30,284

33,496

1,65,629

State

A. Pradesh

Karnataka

Oman

Qatar

U.A.E.

Others

Total

Oman

Saudi Arabia

Kerala

1999

18,983

5,287

60,445

2000

29,999

10,927

69,630

2001

37,331

10,095

61,548

Source: GOI, 2002, Report of the High Level Committee on the Indian Diaspora

During the last three decades, there had there had been a decline in the Indian mibeen much change in the destination of gration to Iraq and Libya during 1990s. Indian emigrants in the Gulf region. During According to the Committee 40 percent of the 1970s, U.A.E. was the major destination the stock of Indian emigrants in the Gulf of Indian migration. But during the subse-

quent decades Saudi Arabia became the

principal destination. On the other hand,

60,000 -

30,000

1,00,000

1,52,000

5,31,000

68,000

region was in Saudi Arabia, while the share of U.A.E. and Oman were 25 and 15 percent respectively (Table 5).

2,20,000

6,00,000

4,00,000

15,05,000

10,000

75,000

2002

38,417

14,061

81,950

4,50,000

1,00,000

12,00,000

7,50,000

1,30,000

30,00,000

Table	5: Estimat	es of Inc	dian Mi	grants in	the Gulf Regio	n 1979-	1999 (Pe	ercentag	je)
Countries	1979	1983	1991	1999	0				
Bahrain	4.89	3.27	6.64	5.00	Qatar	5.65	4.37	4.98	3

countries	1979	1983	1991	1999			1 i	
Bahrain	4.89	3.27	6.64	5.00	Qatar	5.65	4.37 4.98	3 33
iraq	3.76	5.46	N.A	N.A	Saudi Arabia	18.83	29.47 39.27	46.66
Kuwait	12.24	12.55	5.85	6.66	U.A.E.	28.62	27.29 26.53	25.C/s
Libya	1.90	4.37	0.79	0.66	Others	12.80	2.29 , 0.66	عدةً. 4

According to the Committee more than half of the total stock of Indian migrants in the Gulf region belong to Kerala. The remaining persons have mostly been from Andhra Pradesh, Goa, Karnataka and Tamil Nadu.

والمنافعة والمنافية

The Committee estimates that non Resi-

dent Indian Citizens (NRIs) account for 7 percent of the total population in Saudi Arabia. On the other hand, NRIs account for 32 percent of the total population of U.A.E., 13 percent of Kuwait, 15 percent of Oman, 20 percent of Bahrain and 24 percent of Oatar (Table (6).

Table 6: Percentage of NRIs in the Total Population of Main Arab Countries in Year 2000

Country	Population	No. of	Percen
		NRIs	tage of
			Popula
			tion
S. Arabia	2,15,00,000	15,00,000	7
U.A.E.	28,00,000	9,00,000	. 32
Kuwait	22,00,000	2,87,600	13
Oman	22,00,000	3,40,000	15
Bahrain	6,43,000	1,30,000	20
Qatar	5,25,000	1,25,000	24

Source: GOI, 2002, Report of the High Level Committee on the Indian Diaspora

Current problems of NRIs in the Gulf countries

Of the total Indian migrants in the Gulf, majority of them are semi-skilled and unskilled workers getting lower wages. Most of them are denied the non-wage benefits entitled as per law. The High Level Committee estimates that of the total migrants 70 percent are semi-skilled and unskilled workers. And the white-collar workers was about 20 percent and professionals 10 percent.

The professional Indians and some of the white-collar workers are the only ones who qualify to have their families with them due to the high basic income norms set by the Gulf governments. To enjoy such a privilege in the U.A.E, for instance, the monthly earnings of an NRI must be not less than 4,000 Dirhams (about Rs. 48,000) or Dirhams 3,000 plus accommodation. In Kuwait, the qualifying minimum is even higher namely Kuwait Dinars 400 or Rs. 56,000 per month. Because of high ceiling on earnings, more than 80 percent of the Indian emigrants are not

allowed to bring their family members with them.

The living and working conditions of the unskilled and semi-skilled Indian workers in the Gulf leave much to be desired. A majority of these NRIs are young males. Over 60% of them have had little formal education. On arrival in their country of destination in the Gulf, they are usually fed and housed in barracklike tenements and engaged as labour on construction projects.

There are many unfortunate cases of recruiting agents duping illiterate job seekers, often in collusion with the prospective employers. As per prevalent practice, the employee is required to hand over his travel document to the employer on his arrival. The document is kept in the custody of the employer. Enabling him to exercise undue hold over the employee and to ignore or alter the terms of the employment.

The other current problems faced by the migrants in the Gulf countries are the following. (1) Non-compliance labour contract by

the employer after arrival. Denial of job, wages, non wage benefits as per the original abour contract. In many cases, forcing the skilled workers to do unskilled jobs with low wages. (2) Creating much hardships to the new migrants by the employers by not receiving them on arrival at airport after sponsoring visas. (3) Salaries are often not paid when due; sometimes not paid at all for several months towards the end of the contractual period, resulting in non receipt of

salaries for the work done. (4) Practice of

deducting the wok permit fees from their

(5) Forcing them to work long hours than

the recognized 8 hours per day. (6) Non-payment of legitimate overtime dues. (7)

meagre salaries.

Poor and unsatisfactory transportation arrangements for labourers from their camps to their worksites.

(8) Lack or inadequate medical facilities to the workers. (9) Non-payment of Airfare for return journey to India after two years as per labour rules. (10) Inaccessible labour courts for ordinary migrants who want to settle labour disputes. The mandate of the labour courts appears to be restrictive and it does not cover domestic help. (11) Ill-treatment and molestation of Indian women who were recruited as cooks or housemaids by the employers or agents

help. (11) Ill-treatment and molestation of Indian women who were recruited as cooks or housemaids by the employers or agents sending them under false pretenses. Out of a total of 294,000 NRIs in Kuwait, about 113,000 of them are domestic servants and of them, about 49,000 are housemaids. (12). Severe stress leading to serious psychological problems and suicides. Concern for their families left behind in India, difficult living and working conditions, insecurity of jobs has often led to depression and melancholia, resulting in suicide in extreme cases. Shepherds and agricultural workers have to work in remote areas with minimal or no contact with the outside world. (13) Workers who

want to return to India on completion of their contracts, or due to an unforeseen emergency like sickness or death in the family often find that exit formalities are inordinately delayed (14) The usual practice in Gulf countries is to deposit the passport of the migrants with the employer. And employer refuses to give the passport to the worker when he wants it, thus creating much hardships. In some cases, when he changes the employer without his consent the worker becomes an illegal migrant.

More than 30 lakh NRIs are there in the Gulf countries. Of them nearly half are from the Kerala state. Though, there has been decline in the trend in migration during the late nineties the situation has changed since 2001. Of the total Indians in the Gulf, 70 percentage are semi-skilled and unskilled workers, 20 percent white-collar workers and 10 percent professionals. As majority of the Indian emigrants are semi-skilled and unskilled they receive low wages and face a host of problems. The lack of an effective labour dispute redressal system in the Gulf creates serious hardships to the Indian migrants. The majority of the Indian migrant workers also face a number of severe problems connected with their work and stay in the Gulf countries.

More Willionaires

The number of people globally with, over \$ 1 million assets rose by 6.5% in 2005 to touch 8.7 million, according to Merrill Lynch. South Korea witnessed the highest growth of 21.3% in the number of high net worth individuals. India was second with a 19.3% growth. The number of millionaires stood at 2.4 m. in Asia Pacific, 2.8 m. in Europe and 2.9 m. in North America.

भूगांचाम्

The introduction of the New Industrial Policy of deregulation, delicencing and disinvestment has opened a new environment in the country. A significant number of industries in the public sector are now thriving alongside many industries in the private sector. Often Foreign Direct Investors are setting new trends on a competitive playing field. The overall growth in the General Index during 2002-03 has been 5.8%.

Steel

India is the 9th largest steel producing country in the world. The annual growth rate of crude steel production in 2002-03 was 8% and in 2003-04, 6%. The apparent consumption of the finished steel was 30.265 m tonnes in 2003-04. India also annually imports 1.5m tonnes of steel. During 2003-04 India exported 5.3 million tonnes of steel in the form of plates, bars and rods, rolled coils, colour coated sheets, pig iron, sponge iron, GP/GC sheets, etc.

India has once again emerged as the largest producer of sponge iron in the world for the calendar year 2004-05 with a record production of 8.085 million tonnes, showing a significant growth of 17.5%.

Textiles

The textile's strong presence in the Indian economy adds up to 14% to the industrial production and about 4% to the GDP. It together with allied agricultural sector will provide employment to over 91 million people by the end of 2007.

The handloom sector constitutes 14% of the total cloths produced. The production of

the handloom fabrics has registered a 10 fold increase from a mere 500 m sq. metres in 1950s to 5524 million sq. metres in 2002-03. The contribution of the powerloom sector is to the extent of 62%. Cotton accounts for more than 75% of the total fibre consumption in the spinning mills and more than 56% of the total fibre consumption in the textile sector. India tops in production of raw jute and jute goods and second in export of jute goods. About 4 million farmers are engaged in the cultivation of jute and mesta and about 2.61 lakh workers employed in the jute industry.

India is the second largest producer of raw silk. The Industry employs 54 lakh persons. The raw silk production in 2004-05 was 15,785 MT. There are five varieties of silk and India is the only country in the world which produces all the 5 commercial varieties, namely, Mulberry, Tropical Tasar, Oak Tasar, Eri and Muga.

Indian handicrafts have a wide range - things made up of bamboo, cotton, silk, jute, cane, metals, glass-work, and much more. Exports of handicrafts including hand-knotted carpets were of the order of Rs. 15255.90 crore during 2004-05 representing 19.51% over the previous year.

Cement

Cement is one of the most advanced industries in the country. As on 30 April, 2005, there were 128 large cement plants with an installed capacity of 144.98 million tonnes per annum. There are more than 300 small cement plants with an estimated capacity of 11.10 million tonnes per annum.

The production during 2004-05 was 131.56 million tonnes with a growth rate of 6.52%. In 2004-05, India exported 10.06 million tonnes (prov.)

Leather

The small scale, cottage and artisan sector account for over 75% of the total leather production. India, in this sector, has big advantage in terms of cheap raw material and skilled manpower. Besides most of the people employed in this industry are predominantly from minority communities and disadvantaged sections of the society. About 30% of the work force employed here con-

stitute women. In 2004-05, India exported

leather worth Rs. 9,749 crore.

Fertilisers

India is the third largest producer of nitrogenous fertilisers in the world. There are 57 fertiliser units manufacturing a wide range of nitrogenous and complex fertilisers, including 29 units producing urea and nine units producing ammonium sulphate as by-product.

The production capacity of nitrogen has increased from a modest 85,000 tonnes in 1951-52 to 120.31 lakh tonnes in terms of nitrogen. The production target for 2005-06 has been fixed at 118.07 lakh tonnes of nitrogen and 47.02 lakh tonnes of phosphate.

Paper and Newsprint

In 2003, there was an installed capacity for nearly 6.2 million tonnes of paper and paperboard and about 1.24 m tonnes of newsprint. The Indian industry is ranked 15th among the world top ranking paper industries. The industry is fragmented with installed capacity ranging from two tonnes to 600 tonnes. Its turnover is about Rs. 16,000 crore, employing nearly three lakh people directly and 10 lakh people indi-

rectly. The per capita consumption of paper in India is still 5.5kg. The world average per capita consumption is 50kg.

Small and Medium Enterprises

As per the Third All India Census of SSIs (Registered and Unregistered units) held for the year 2001-02, there were 105.21 lakh SSI units in the country, out of which 13.75 lakh were registered working units and 91.46 lakh unregistered units. Their contribution to production was Rs. 2,82,270 crore and to employment at 249.09 lakh persons. It is estimated that during 2004-05, the number of SSI units has increased to 118.59 lakh from 113.95 lakh in the previous year registering a growth of 4.7 per cent. The value of production at current prices by the SSI units also increased by 13.95 per cent to 4,07,630 crore from Rs. 3,57,733 crore during 2003-

FMCG Industry

04.

THE Rs. 41,000-crore Indian Fast Moving Consumer Goods (FMCG) industry appears to be fatigued, after robust growth in the early 1990s. Growth rates in the larger categories such as soaps, detergents and toothpastes, which already reach out to the bulk of Indian consumers, have been declining since 2000. The challenges of the slowdown have brought some tangible benefits to the consumer as also to the industry. They are: consumers now drive a better bargain with lower prices and freebies; cost structure and pricing is crucial; and competitive marketing strategies offer better value to its consumers. The slow down, accompanied by significant changes in the business environment

over past few years, has led to significant upheavals within the FMCG industry. It has not only weakened the dominance of the large MNCs operating in the Indian FMCG and challenged their pricing power but bened the basket of choices for consume.

शाधियाति ।

Planning is the key to development for a developing country. For a mixed economy like India where both Public sector and Private sector exist alongside in the nation building process, the aim of the planning process is to offer quality of life to its citizens. In a welfare state equal opportunity in terms of education and employment, equitable distribution of wealth, health and social security are crucial.

To that end, in India we have the Planning Commission (constituted in March 1950), National Planning Council (established in 1965), and National Development Council.

The Five Year Plans are drawn by the Planning Commission. Besides there have been three Annual Plans - (a) 1966-67 to 1968-69 (Plan holiday during War with China and Pakistan); (b) 1978-79 to 1979-80 (during Janata Government); and 1990-91 to 1991-92 (to bring about maximum employ-

ment and social transformation).

Highlights of 10th Plan

polluted river stretches.

 Doubling of Percapita Income in 10 years · Achieving growth rate of 8% of GDP per annum • Reduction of poverty from 26 to 21% by 2007 • Decadal population growth to be reduced from 21.3% (1991-2001) to 16.2% in 2001-2011 . Growth in gainful employment to keep pace with the addition to labour force. • All children to be in school and 5 years schooling by 2007 • Reduce gender gaps in . literacy and wage rates by 50% • Literacy Rate to be increased from 65% to 75% by 2007 • Providing potable drinking water in all villages • Infant Mortality Rate to be reduced from 72 (1999-00) to 45 in 2007 • Maternal mortality ratio to be reduced from 4 (1999-00) to 2 in 2007 • Increase in forest/tree cover from 19% (1999-00) to 25% in 2007 • Cleaning of major

5-year Plan	Period		Outlays		Total
		Centre	States	UTs	
1. First Plan	1951-56	1241.00	828.00	-	2069.00
Second Plan	1956-61	2559.12	2240.88	-	4800.00
3. Third Plan	1961-66	3600.00	3725.00	175.00	7500.00
4. Fourth Plan	1969-74	8870.00	6606.47	425.00	15902.16
5. Fifth Plan	1974-79	19954.10	18265.08	634.06	38853.24
6. Sixth Plan	1980-85	47250.00	48600.00	1650.00	97500.00
7. Seventh Plan	1985-90	95534.00	80698.00	3768.00	180000.00
8. Eighth Plan	1992-97	247865.00	179985.00	6250.00	434100.00
9. Ninth Plan	1997-2002	489361.00	369839.00	•	859200.00
10. Tenth Plan	2002-07				

Note: First Plan total outlay is the 1952 Original Plan Provision; The Fifth Plan total outlay excludes Rs. 450 00 crores for Hill and Tribal Areas; Outlays are at prices at base year of Plan; * The State Outlay for Ninth Plan includes the figures for UTs.

Tenth Five-yearPlan (2002-07) was approved by National Development Council on 21 Dec 2002.

The largest share (about 96 per cent) in the total geological resources is accounted by Cuttak district in Orissa Deposits of economic significance occur in Orissa, Kamataka, Maharashtra, Jharkhand, Madhya Pradesh, Chhattisgarh, Tamil

Nadu and Manipur. However, refractory grade reserves of chromite are very meagre.

Copper: The total in situ reserves of copper ore in the country are 712.5 million tonnes equivalent to 9.4 million tonnes of metal content. The all-India conditional resources of copper are 722 million tonnes, (3.16 million tonnes of copper metal) and prospective resources are 0.6 million tonnes of copper ore Major and important copper ore deposits are located in

Singhbhum district (Jharkhand), Balaghat district (Madhya Pradesh) and Ihunihunu and Alwar districts (Rajasthan). In addition, there are small copper ore deposits in Gujarat, Kamataka, Andhra Pradesh, Uttar Pradesh, Sikkim, Meghalaya Maharashtra and West Bengal. Gold: There are 3 important gold fields in the country, namely, Kolar Gold Field, Kolar district. Hutti Gold Field in Raichur district (both in Kamataka) and Ramgiri Gold Field in Anantpur

district (Andhra Pradesh). Total in situ reserves of gold ore are estimated at 222.4 million tonnes. with 116.50 tonnes of metal. Iron Ore: The total in situ reserves of iron ore in the country are about 12,317 million tonnes of haematite and 539.5 million tonnes of mag-

netite. The resources of very high grade ore are limited and are restricted mainly in Bailadila sector of Chhattisgarh and to a lesser extent in Bellary-Hospetarea of Karnataka and Barajamda sector in Jharkhand and Orissa. Haematite resources are located in Orissa, Jharkhand, Chhattisgarh, Karnataka, Goa, Maharashtra, Andhra Pradesh and Rajasthan. Magnetite re-

Tamil Nadu. Lead-Zinc: Lead-Zinc resources are located in Rajasthan, West Bengal, Andhra Pradesh, Gujarat, Madhya Pradesh, Uttar Pradesh,

sources are located in Karnataka, Andhra

Pradesh, Goa, Kerala, Jharkhand, Rajasthan and

lead and zinc ores are 231.22 million tonnes comprising metal content of 5.1 million tonnes of lead and 17.01 million tonnes of zinc metal. Manganese: The total in situ reserves of manganese ore are 406 million tonnes out of

which 104 million tonnes are proved, 135 million tonnes are probable and 167 million tonnes are in possible categories. Main reserves fall in Karnataka, followed by Orissa, Madhya Pradesh, Maharashtra and Goa, Minor occurrences of

Gujarat, Rajasthan and West Bengal.

manganese are in Andhra Pradesh, Iharkhand.

resources of nickel ore are 188.7 million tonnes

Nickel: The total estimated conditional

Orissa, Maharashtra, Meghalaya, Tamil Nadu

and Sikkim. Total in situ reserves (all grades) of

located in Orissa (174.48 million tonnes) and Iharkhand (9 million tonnes).

Tungsten: The total in situ reserves of tungsten ore have been estimated at 43.15 million tonnes or 1,32,478 tonnes of W03 content. The main reserves are at Degana, Rajasthan. It also occurs in Maharashtra, Haryana, West Bengal and Andhra Pradesh.

pipes, conglomerate beds and alluvial gravels. The main diamond bearing areas in India are Panna belt in Madhya Pradesh, Munimadugu-Banganapalle conglomerate in Kumool dis-

Barytes: The in situ reserves of barytes are 85.29 million tonnes. The Mangampet deposit occurring in Cuddapah district (Andhra Pradesh) is the single largest deposit in the world. Minor occurrences of barytes are located in Rajasthan, West Bengal, Chhattisgarh, Madhya Pradesh, Tamil Nadu, Maharashtra, Uttar Pradesh, Iharkhand., Himachal Pradesh and Kamataka. Diamond: Diamond deposits occur in three types of geological settings such as kimberlite

trict, Wajrakarur kimberlite pipe in Anantapur district and the gravels of Krishna river basin in Andhra Pradesh. Reserve have been estimated only in Patina belt and Krishna Gravels in Andhra Pradesh. The total in situ reserves about 26,43,824 carats. There are condition resources of 19,36,512 carat. The new kimber

fields are discovered recently in Raichurlbarga districts of Karnataka. Dolomite: Dolomite occurrences are wide-

ead in almost all parts of the country. The

al in situ reserves of all grades of dolomite 27,348 million tonnes. The major share of out 90% reserves is distributed in the states Madhya Pradesh, Chhattisgarh, Orissa,

ijarat, Kamataka, West Bengal, Uttar Pradesh d Maharashtra. The reserves of BF and SMS ades are large, but those of refractory grade

425 million tonnes constitute only 5.8% of e all India reserve. Fire Clay: Fireclay occurs as a bedded posit, mostly associated with coal measures Gondwana and Tertiary periods. Important eposits are associated with Jharia and Raniganj oalfields in Jharkhand and West Bengal, Korba

radesh and Belpahar-Sundergarh areas of Orissa. The in situ reserves of fireclay are about 06 million tonnes Fluorspar: Total in situ reserves of fluorpar in India are 14.15 million tonnes. Comnercial deposits of fluorspar are located in Gujarat, Rajasthan, Madhya Pradesh and

palfield in Chhattisgarh and Neyveli Lignite

eld in Tamil Nadu. Notable occurrences of

reclay not associated with coal measures are

nown in Gujarat, Jabalpur region of Madhya

Gypsum: The in situ reserves of gypsum are estimated at 383 million tonnes. Out of

Maharashtra.

Jammu and Kashmir.

this 1.8 millions are of surgical/ plaster grade. 91.7 million tonnes of fertiliser / pottery grade, 76.37 million tonnes of cement/ paint grade, 13 million tonnes of soil reclamation grade and the rest is unclassified. The production of gypsum is confined to Rajasthan, Tamil Nadu, ammu and Kashmir, and Gujarat. Rajasthan is

the main producer of gypsum followed by

Graphite: The in situ reserves of graphite are 15.9 million tonnes. Orissa is the major producer graphite. Almost the entire reserves of Tamil bdu under proved category are in

cial importance are located in Andhra Pradesh, Jharkhand, Gujarat, Kamataka, Kerala, Madhya Pradesh, Maharashtra, Orissa, Rajasthan and Tamil Nadu. Ilmenite: The in situ reserves of ilmenite are 374.62 million tonnes. Ilmenite occurs mainly in

Ramanathapuram district. Deposits of commer-

beach sand deposits right from Ratnagiri (Maharashtra) to coast in Kerala, Tamil Nadu and Orissa. The mineral is also found in Andhra Pradesh, Bihar, and West Bengal. Kaolin: The all India in situ reserves of kaolin, including white clay of all categories are about

2,353 million tonnes. Principal producing states are Kerala, West Bengal, Bihar, Rajasthan and Gujarat, Ball clay is mainly produced in West Godavari district of Andhra Pradesh and Bikaner district of Rajasthan. Limestone: The total in situ reserves of

limestone of all categories and grades are placed

at 1,69,941 million tonnes. The total conditional

reserves have been estimated at 3,713 million

tonnes. The major share of its production comes

from Madhya Pradesh, Chhattisgarh, Andhra Pradesh, Gujarat, Rajasthan, Kamataka, Tamil Nadu, Maharashtra, Himachal Pradesh, Orissa, Bihar, Uttaranchal and Uttar Pradesh. The remaining part comes from Assam, Haryana, Jammu and Kashmir, Kerala and Meghalava. Mica: India is the world's leading producer of

sheet mica and accounts for about 60 per cent of global mica trade. Important mica bearing pegmatite occurs in Andhra Pradesh, Iharkhand, Bihar, Rajasthan. The total in situ reserves of mica in the country are placed at 59,065 tonnes. The in situreserves of mica in Andhra Pradesh are 42,626 thousand tonnes, Bihar 12,938 tonnes, Jharkhand 1,494 tonnes and in Rajasthan 2,006 tonnes.

Magnesite: The total in situ reserves of magnesite are about 415 million tonnes of which 75.8 million tonnes are in the proved category. Major deposits of magnesite are found in Uttaranchal, Tamil Nadu and Rajasthan while minor occurrences are in Jammu and Kashmir. Kamataka, Himachal Pradesh and Kerala

Kyanite and Sillimanite: The total in situ reserves of kyanite and sillimanite in the country are 8.1 million tonnes and 58.8 million tonnes respectively. Besides, conditional resources of 95.3 million tonnes of kyanite are also estimated. For sillimanite, conditional resources are estimated to be 5.9 million tonnes. Kyanite deposits are located in Maharashtra, Kamataka, Jharkhand, Rajasthan, and Andhra Pradesh. Sillimanite resources are in Tamil Nadu, Orissa, Kerala, Andhra Pradesh and West Bengal with minor occurrences in Assam, Jharkhand, Karnataka, Madhya Pradesh, Maharashtra, Meghalaya and Rajasthan.

Phosphate Minerals: Deposits of phosphorites are located in Madhya Pradesh, Rajasthan, Uttaranchal, UP. and Gujarat. Besides, apatite deposits of commercial importance are reported from Jharkhand, West Bengal, Andhra Pradesh, Tamil Nadu and

Rajasthan. In situ reserves of phosphorites ar estimated at 193.23 million tonnes of all grade and of apatite at 14.83 million tonnes.

Other Minerals: Other minerals occurring in significant quantities in India are bentonit (Rajasthan, Gujarat, Jharkhand and J&K), corun dum (Karnataka, Andhra Pradesh, Rajasthan and Chhattisgarh), calcite (Andhra Pradesh Rajasthan, Madhya Pradesh. Tamil Nadu Haryana, Karnataka, Uttar Pradesh and Gujarat) fuller's earth (Rajasthan, Jharkhand, Bihar, Andhra Pradesh, Tamil Nadu, Maharashtra, West Benga and Karnataka), garnet (Tamil Nadu, Orissa Andhra Pradesh, Rajasthan and Kerala), pyrites (Jharkhand, Rajasthan, Karnataka, Himacha Pradesh and Andhra Pradesh), steatite (Raiasthan, Uttar Pradesh, Kerala, Maharashtra and Madhya Pradesh), wollastonite (Rajasthan and Gujarat), zircon (beach sand of Kerala, Tamil Nadu, Andhra Pradesh and Orissa).

Greek Verent

The social and economic development of a country owes a lot to the development of energy resources of that country. Development of conventional forms of energy for meeting the growing energy needs of society is the responsibility of the government. The Ministry of Non-conventional Energy Sources is now actively engaged in the development and promotion of non-conventional/ alternative/ new and renewable sources of energy such as solar, wind and bio-energy etc.

Power development in India started at the end of the 19th century with the commissioning of electricity supply in Darjeeling during 1897. It was soon followed by the commissioning of a power station at Sivasamudram in Karnataka during 1902.

The installed power generation capacity in the country has increased from 1,400 MW in 1947 to 1,18,419.09 MW as on 31 March 2005 comprising 80,902.45 MW thermal, 30,935.63 MW hydro, 3,811.01 MW wind and 2,770 MW nuclear. A capacity addition programme of 6,344.52 MW has been fixed for the year 2005-06. Power generation during 2004-05 was 587.366 BUs comprising 486.031 BUs thermal, 84.497 BUs hydro. The target of power generation for 2005-06 has been fixed at 621,500 BUs.

Coal is the main source of energy in the country and accounts for about 67 percent of the country's commercial needs. Coal is a important input in steel and carbo-chemical industries. As on 1 January 2005, coal reserved

of India (down to depth of 1200 metres) have been estimated at 2,47,847 million tonnes.

Lignite reserves in India have been estimated at around 36,009 million tonnes. Lignite reserves have been identified in Rajasthan, Gujarat, Jammu and Kashmir and Kerala to the extent of 3,845 million tonnes, 1,816 million tonnes, 128 million tonnes and 108 million tonnes respectively.

The importance of increasing the use of renewable energy sources was recognised in the country as far back as the 1970s. The country has developed a very large programme for renewable energy. It covers almost all major renewable energy sources such as biogas, biomass, solar energy, wind energy, small hydro power and other emerging technologies. The Ministry of Non-conventional Energy Sources created in 1992 is the nodal agency of the government for all matters relating to non-conventional / renewable energy.

India receives 5000 trillion kwh of solar radiation per year. Most parts of the country have 300 clear sunny days in a year. It is possible to generate 20 MW solar power per square kilometer land area. Solar energy is being tapped for a variety of applications like cooking, water heating, drying of farm produce, water pumping home and street lighting, power generation for meeting decentralised requirements in villages, schools and hospitals.

India now ranks fifth in the world in wind power capacity after Germany, USA, Denmark and Spain. The gross wind power potential of India is estimated to be about 45,000 MW, while the present technical potential is limited to about 13,000 MW governed by the grid capacity in the potential states.

Oil and Natural Gas Corporation (ONGC) and Oil India Limited (OIL), the two national companies and a few private and joint venture companies are engaged in exploration and production of crude oil and natural gas in the country. Crude oil production in the country

during the year 2003-04 was 33.378 MMT. Production of natural gas during the same period was about 31.96 billion cubic meters.

Atomic Energy

The Department of Atomic Energy, established on 3 August 1954, has been engaged in the development of nuclear power technology, application of radiation technologies in the field of agriculture, medicine, industry and basic research. It supports 7 institutes of international repute engaged in research in basic sciences, astronomy, astrophysics, cancer research and education, etc. The Department being an integrated organisation comprises 5 research centres, 3 industrial organisations, 4 public sector undertakings, and 3 service organisations.

The Indian nuclear power programme started off in the sixties. The DAE has a 3stage programme. Stage-I comprises setting up of pressurised heavy water reactors (PHWR) and associated fuel cycle facilities. Stage-II envisages setting up fast breeder reactors (FBR) backed by reprocessing plants and plutonium based fuel fabrication plants. Stage-III is based on thorium-233 cycle. Uranium-233 is obtained by irradiating thorium. NPCIL is responsible for design, construction, and operation of nuclear power reactors. IGCAR is engaged in design and development of liquid sodium cooled FBRs. BHAVINI, a new company, is responsible for implementing Prototype Fast Breeder Reactor (PFBR) in collaboration with IGCAR and NPGIL, BARC is now developing Advanced Heavy Water Reactor for thorium utilisation, which is abundant in India.

Initially an atomic power station was set up in Tarapur (Maharashtra) - commissioned in 1969. The first two PHWRs built at Rawatbhata (Rajasthan) started commercial production in 1972 and 1980. Two 2x220 PHWR was commissioned at Kakrapar in 1982 and 1995. In 1999-2000, 2x220Mwe

PHWR came online each at Kaiga (Karnataka) and Rawatbhata (Rajasthan). Now Nuclear Power Corporation is operating 14 nuclear power reactors, with a total installed capacity of 2720 Mwe. It has gained an experience of over 200 reactor years of nuclear power plant operation. The total generation of nuclear power since the commencement of their commercial operation stands at 1,85,640 million units till Dec 2002.

National Power Grid

The Union government in 1980 approved in principle the establishment of a Centrally owned and operated national power grid. The national grid would eventually comprise strong regional networks with suitable HVDC links between the regions. The inter-regional power transfer capacity today has been raised to 4350 MW from a mere 500 MW in 1992-93. The inter-regional HVDC back to back links Vindhyachal (2X250 MW) connecting Western and Northern regions, Bhadrawati (2X500 MW) connecting Western and Southern Region, Gazuwaka (1X500 MW) connecting Eastern and Southern Region are in operation. These as well as the other AC links between regions form the important components of the National Power Grid. The basic framework of the Power Grid shall be in place after completion of ongoing East-North Sasaram HVDC inter-connection scheduled for completion by 2002. The power transfer capacity is also planned to be enhanced in a progressive manner up to 14000 MW by 2004-05 and up to 30,000 MW by the year 2012 through establishment of various inter-regional AC and HVDC links along with transmission highways planned for future. The Power Grid Corporation of India Limited established in 1989 has been vested with the responsibility of developing the National Grid.

Rural Electrification: In 1947, only 1500 villages in the country were electrified. Now under the rural electrification programme 5,06,401 (86.2%) villages out of the total 587258 villages have been electrified. Similarly, a total of 1,24,45,010 million pumpsets have been energised up to February, 2000 out of the total estimated potential of energisation of 19.6 million pumpsets thus achieving 63% of energisation target for pumpsets. The Government launched Kutir Jyoti Programme on the occasion of Nehru Centenary Year (1988-89) for extending single point connection to the households of rural poor families below poverty lines. This programme is also being given priority in the rural electrification schemes.

त्त्वान्यम्

Railways

Railways provide the principal mode of transportation for freight and passengers. The first ever train in India was flagged off from Bombay to Thane on April 16, 1853. The distance was just 34 kms. It is now one of the world's largest transportation systems.

The total network route km is 63,221 and the number of employees 1.54 million. The number of trains every day is around 11,000, of which 7000 are passenger trains. It has now grown into a network of 7,031 stations, with a fleet of 7,817 locomotives, 5,321 passenger service vehicles, 4904 other coaching ve-

hicles and 2,28,170 wagons as on 31 March 2004.

Railway Zones

Headquarters Zone (16)

Southern Chennai

Mumbai (Church Gate) Western

Mumbai CST Central

Northern

New Delhi

Kolkata Eastern Kolkata South-Eastern

North-Eastern Gorakhpur South-Central Secunderabad

Maligaon (Guwahati) North-East Frontier North-Central Allahabad

East-Central Hajipur North-Western Jaipur

East-Coast Bhubaneswar South-Western Hubli West-Central jabalpur

South-Fast Central Bilaspur Shipping and Ports

India has a 7617 km long coastline. About 95% of India's foreign trade by volume and 70% by value moves through ports.

There are 12 major Ports in India, viz. Kolkata (including Haldia), Paradip, Visakhapatnam, Chennai, Ennore and Tuticorin on the East coast; and Cochin, New Mangalore, Mormugao, Jawaharlal Nehru (JNPT), Mumbai and Kandla on the West coast.

There are 185 minor/intermediate ports under the administrative control of concerned maritime State Government, Out of these, about 43 ports handle cargo.

During 2003-04, minor ports handled about 113.41 MT of cargo traffic which is approximately 25% of the total cargo traffic handled by the Indian ports.

As on 1 April 2005, there were 686 ships registered in India with a Gross tonnage (i.e. freight carrying capacity) of 8.01 million tonnes.India has the largest merchant shipping fleet among the developing countries and ranks 19th amongst the coun-

tries with the largest cargo carrying fleet

with 7.07 million GT and the average of the fleet being 17 years. During 2003-04, the overall share of Indian ships in India's overseas trade was about 16.9%. There are 28 shipyards in the country; 7 under Central public sector, 2 under State Governments and 19 under private sector.

Inland Waterways

Three inland waterways have been declared as National Waterways, They are: (1) NW-1: Alahabad-Haldia stretch (1620 km) of the Ganga-Bhagirathi-Hoogly river system; (2) NW-2: Sadiya-Dhubri stretch (891 km) of the Brahmaputrariver; and (3) NW-3: Kottapuram-Kollam stretch (168 km) of the West Coast Canal along with Champakara Canal (923 km) and Udyogmandal Canal (14 km).

During the 9th Plan period there was additional capacity creation to the extent of 124.40 MTPA in the 12 major ports resulting in aggregate capacity for these ports reaching 343.95 MTPA by the end of the 9th Plan period.

By the terminal year of the 10th Plan in 2006-07, traffic in major ports is projected to reach 415 million tonnes whereas aggregate capacity in major ports is expected to reach a level of 470.60 MTPA.

India has a vast road network of about 3.32

Roads

million km that includes National Highways, State Highways, major district roads and rural roads. The length of National Highways in the country at the time of Independence (1947) was 21,440 km. Today, the length of National Highways is 65,569 km, the length of State Highways is 1,31,899 km, melerom of major district roads is 4,67,763 km and the length of rural roads is 25,50,000 km.

Roadscarryaccut75%aftesteigntmaffc and about 35% of the passence residence the country. National rightways are annually of the entire letters to the transfer to the t

The number of officers are the second of

registered motor vehicles in India (as per year 2002 data) is 5,88,63,000 that includes 4,14,78,000 two-wheelers, 75,71,000 cars, jeeps and taxis, 6,69,000 buses, 30,45,000 goods vehicles and 61,00,000 other vehicles. Traffic on the roads is growing at the rate of 7 to 10% per annum.

Civil Aviation

The civil aviation sector in India is now undergoing a rapid phase of expansion. Despite the nation's population of more than a billion people, it has just 165 commercial planes. But the country is changing rapidly, emerging as one of the fastest growing markets. Air traffic in India has been growing rapidly, adding around 275,000 passenger seats in 2004, and it is expected to add more than 325,000 in 2005.

Existing Position: There are 449 airports/airstrips in the country. Among these, the AAI owns and manages 92 airports and 28 civil enclaves at defence airfields and provides air traffic services over the entire Indian airspace and adjoining oceanic areas.

In 1996-97, these 120 airports/civil enclaves handled 3.96 lakh aircraft movements involving 243 lakh domestic and 122 lakh international passengers, and 20 lakh metric tonnes of domestic and 4.8 lakh metric tonnes of international cargo. 52% of traffic was handled at the international airports at Mumbai and Delhi. Presently, the various airlines are operating only through 61 airports. The remaining are lying unutilised, at best handling occasional aircraft operations.

Historically, air traffic at Indian airports has broadly followed a particular distribution pattern, except that some airports have changed their inter se positions vis-a-vis volume of traffic.

Airports are presently classified in the following manner: (i) International Airports: These are declared as International Airports and are available for scheduled

international operations by Indian and foreign carrriers. Presently, Mumbai, Delhi, Chennai, Kolkata and Thrivananthapuram are in this category; (ii) Custom Airports: These have customs and immigration facilities for limited international operations by national carriers and for foreign tourist and cargo charter flights. These include Bangalore, Hyderabad, Ahmedabad, Calicut, Goa, Varanasi, Patna, Agra, Jaipur, Amritsar and Tiruchirapally: (iii) Model Airports: These are domestic airports which have minimum runway length of 7500 feet and adequate terminal capacity to handle Airbus 320 type of aircraft. These can cater to limited international traffic, if required. These include Lucknow, Bhubaneshwar, Guwahati, Nagpur, Vadodara, Coimbatore, Imphal and Indore; (iv) Other Domestic Airports: All other airports are covered in this category; (v) Civil Enclaves in Defence Airport: These are 28 civil enclaves in Defence airfields.

Proposed Classification of Airports:

1. To develop the capacity of airports in accordance with the future projections, it is proposed to reclassify the airports as follows:(a) International Hubs: This category will be that of 'International Hubs' which may cover airports currently classified as 'International airports' and those eminently qualified to be upgraded as such. These would at present cover Delhi, Mumbai, Chennai, Kolkata and Thiruvananthapuram. Airports at Bangalore, Hyderabad, Ahmedabad, Amritsar and Guwahati can be added to the list as and when the facilities are upgraded to the desired level. International hubs would be used for dispersal of international traffic to the hinterland. In these airports, the facilities shall be of world class standards, including convenient connections to international and domestic passengers, airport-related infrastructure like hotels, shopping areas, conferencing and entertainment facilities,

aircraft maintenance bases, etc.; (b) Regional Hubs: Government is keen to encourage development of regional airlines based on small aircraft to provide air linkages in the interior areas of the country. Regional hubs will have to act as operational bases for regional airlines and also have all the facilities currently postulated for model airports, including the capability to handle limited international traffic. The identification of

Regional Hubs will be made on the basis of origin-destination surveys, traffic demand and the requirements of the airlines. State Govt. will be closely associated as co-promoters of regional airlines; (c) Other operational airports: These will be developed so as to be cost-effective on the basis of individual needs to meet the requirements of traffic handled by them. Airports serving State Capitals will be given priority.

<u> जिल्ल</u>ाह

The Army

The Army is organised into five operational Commands, viz., Southern, Eastern, Western, Central and Northern Command and one Training Command. The Army consists of a number of arms and services. At the Army Headquarters in New Delhi, the Chief of the Army Staff is assisted by the Vice-Chief of the Army Staff and seven other Principal Staff Officers.

Navy

The Navy is responsible for defence and security of India's maritime interests and assets, both in times of war and peace. The Chief of the Naval Staff at the Naval Headquarters, New Delhi, is assisted by four Principal Staff Officers. The Navy has three commands, i.e., Western, Eastern and Southern, with their headquarters located at Mumbai, Vishakhapatnam and Kochi respectively. At present, it has two major Naval bases at Mumbai and Vishakhapatnam.

Air Force

The Indian Air Force, established more than six decades ago, has indeed come a

long way to become a balanced and potent world class Air Force in the world. There are five operational commands. These are: Western Air Command, South-Western Air Command, Central Air Command, Eastern Air Command and Southern Air Command. In addition, Maintenance Command and Training Command are two functional commands. The Air Headquarters is in New Delhi.

Women in the Armed Forces

While provision has all along existed for women to join the Armed Forces Medical Services, the Armed Forces Dental Services and the Military Nursing Service, Section 12 of the Army Act provided that women would not normally be eligible for enrolment in the Army. Similar provisions also existed in the cases of the Air Force and the Navy. However, in acknowledgement of the changing times, the Government has approved the induction of women into selected non-combatant branches in the three Forces. The entry of women is mainly in the officer cadres and on Short Service Commission basis. Further continuance depends on

the basis of the experience gained. In pursuance of this decision, several women officers have since joined the Service, in the EME, Signals, Engineers, Army Education Corps, Army Ordnance Corps, Army Service Corps and in the Judge Advocate General Department.

Coast Guard

The Coast Guard came into being on 1 February 1977 and was constituted as an independent Armed Force of the Union of India with the enactment of CG Act 1978 on 18 August 1978. The Coast Guard's broad Charter of Duties includes: (a) Safety and protection of offshore installations and artificial islands: (b) Providing protection to fishermen in distress; (c) Protection of maritime environment; (d) Assisting Customs in anti-smuggling operations; (e) Enforcement of MZI Act; and (f) Safety of life and property at sea.

National Cadet Corps (NCC)

The National Cadet Corps (NCC) established on 15 July 1948 has emerged as the single largest structured youth movement in India. It has 12 lakh boys and girls in the Senior and Junior Divisions in the Army, Navy and Air Force Wings. This strength covers 3.8% of the eligible student population in the country. Director General, NCC located at New Delhi controls and oversees various activities of the NCC through 16 NCC Directorates spread across the country.

Military Education & Training: Major institutions are: Sainik Schools, National Defence Academy (NDA), Khadakwasla, The Indian Military Academy (IMA), Dehradun, The Officers' Training Academy, (OTA) Chennai, Rashtriya Indian Military College, Dehradun, The National Defence College (NDC), Army Cadet College (a wing of IMA), Army School of Physical Training (ASPT), Pune, The College of Combat, Mhow, College of Military Engineering, Kirkee (Pune), The Military College of Telecommunication Engineering, Mhow, The Armoured Corps Centre and School-Ahmednagar, The School of Artillery, Deolali, The Air Defence Guided Missiles School at Gopalpur-on-sea, The High Altitude Warfare School - Gulmarg and Sonmarg, The Counter Insurgency and General Warfare School, Vairengate, and The College of Materials Management, Jabalpur.

Defence Research

The Defence Research & Development Organisation (DRDO) has embarked on a journey to empower India with the cutting-edge defence technology in pursuit of technological excellence.

The DRDO executes various R&D projects through a network of 51 laboratories spread across India. The department has a technical work force comprising 6,000 scientists, engineers and 35,000 office personnel.

In 2004, MBT Arjun has rolled out making everybody proud. It is the state-of-theart flagship of Indian armour. It is fortified with laser range finder, Israeli missiles, thermal sighting equipment, etc.

The supersonic missile BRAHMOS is the outcome of a joint venture between India and Russia. It has been flight-tested and inducted into services. The production facilities have also been geared up in both the countries to meet the orders.

The first Technology Demonstrator was flight-tested on January 4, 2001. The second Technology Demonstrator made its maiden flight on June 6, 2002. Till now 33 test flights have taken place. To accelerate the pace of development and flight trials, 5 more prototype vehicles PV1-PV5 are being built. The Light Combat Aircraft (LCA) is planned to be inducted into Air Force after the initial operational clearance in 2005-06.

Agni I, a single stage solid propelled

nissile having a range of 800 kms was estfired in January 2004 and also 2003. The range fills the gap between Prithvi and the Intermediate Range Ballistic Missile. This missile can be fired from both rail or oad missile launchers.

Another success story is the Pinaka. It is

an Area Weapon System and has undergone confirmatory user trials successfully in July, 2003. The System has met users' requirements for accuracy and consistency. The PINAKA has the capability of firing in a single salvo 12 rockets in less than 40 seconds with a range of 38 kms.

The First-War of Independence

The year 1857 is very significant in the history of India's freedom struggle. It witnessed a revolt, which the British historians have dubbed the Sepoy Mutiny and the Indian historians, the First War of Independence. The 150th anniversary of this event was marked in 2006.

In the summer of 1857 the massed clouds burst and the entire British dominion in India shook to its foundations. Troubles first broke out in Berhampore of Bengal on February 26 in the 19th Bengal Infantry. The first shot was fired on March 29 by Mangal Pandey (Ballia, U.P.) of the 34th Bengal Infantry at Barrackpore of Bengal. Mangal Pandey was hanged at Barrackpore on April 8.

Mutiny started on May 10 at Meerut, followed in Delhi on May 11.

Though the revolt began as a mutiny of Indian soldiers against their British commanders, it soon changed its character and became a fight against British rule as such.

Indian soldiers had broken out in open mutiny against British officers many times previously—in 1806 at Vellore (Madras), in 1842 in Bengal, in 1844 in Sind, then in Bihar and Punjab. None of these had any political overtones. But the so-called Mutiny of 1857 differed radically in this respect. The two elements-military and political coalesced in the revolt of 1857.

The Indian soldiers having massacred the British personnel in Meerut, marched to Delhi

and proclaimed the aged Mughal Emperor Bahadur Shah II as the Emperor of India. Bahadur Shah promptly issued a proclamation urging upon the people of India—Hindus and Muslims alike—"to end the tyranny and the oppression of the infidel and treacherous English."

The British recaptured Delhi from the mutineers on September 20. Bahadur Shah surrendered to Lt. W.S.R. Hodson on September 21 at Humayun's Tomb in Delhi.

The immediate results of the 1857 revolt were:

- 1. The administration of British India, until then under the control of the Board of Directors of the East India Company, was taken over by the British Government. Queen Victoria was proclaimed the Empress of India and the Governor General was designated the Viceroy and Governor General.
- 2. The British Indian army was re-organised. The quota of British personnel in the army was considerably enhanced and the artillery divisions were manned entirely by the British. In addition, many purely British regiments were formed.
- 3. The paramountcy of the British Government was proclaimed, that is to say, all ruling kings and titular princes of India were declared feudatories of the British Crown This proclamation raised many eyebrows among Indian princes, but there was little they could do in the matter.

गित्रामा ठिक्वाभूरे

Border Management

India has 15106.7 km. of land border running through 92 districts in 17 States and a coastline of 7516.6 km. touching 13 States and Union Territories (UTs). India also has a total of 1197 islands accounting for 2094 km. of additional coastline. In fact, barring MP, Chhattis-garh, Jharkhand, Delhi and Haryana, all other States in the country have one or more international borders or a coastline and can be regarded as frontline States from the point of view of border management.

The length of India's land borders with neighbouring countries are:

Country	Length of the border
Bangladesh	4096.7 km.
China	3488 km.
Pakistan	3323 km.
Nepal	1751 km.
Myanmar	1643 km.
Bhutan	699 km.
Afghanistan	106 km.

Central Police Forces

There are 7 Central Police Forces under the Union Government, namely Assam Rifles (AR), Border Security Force (BSF), Indo-Tibetan Border Police (ITBP), Central Reserve Police Force (CRPF), Central Industrial Security Force (CISF), Sashashtra Seema Bal (SSB) and National Security Guard (NSG).

Tackling Natural Calamities

The Ministry of Home Affairs is the nodal ministry for tackling natural calamities. MHA remains in touch with the affected State Governments during crises and coordinates emergency relief and response of the Central Gov-

ernment which includes search, rescue and evacuation, air dropping and air lifting, communication, transport, food grains and essential commodities, medicines, etc.

Facility to Freedom Fighters

Freedom fighters' pension has been sanctioned to 168906 persons including their dependants. They are provided various facilities like free railway pass, free medical facilities in all the Central Government hospitals and C.G.H.S. facilities, telephone connection without installation charges and payment of half the rental, General Pool Government accommodation in Delhi, 2% dealership/distributorship of petroleum products allotted through Dealer Selection Boards, etc.

Naxal and Maoist Activities

The Government has adopted a multipronged strategy to combat the problem of naxalism which inter alia includes peace talks with naxal outfits, accelerated economic development, increased employment opportunities, removal of socio-cultural alienation of the people, and effective anti-naxalite police actions. The incidents of naxalite violence were 1335 during 2004 (as on October 31, 2004) if the country and the number of deaths durin 2004 (as on October 31, 2004) 468.

Issue of Passport/Visa

Fourteen types of visas are issued to for eign nationals for different purposes. The number of registered foreigners living India (excluding Pakistanis) as on 31.12.20 was 3,34,574.

त्रीग्रस्य त्रम्गाण्यिते

The ISRO space programme has come a long way from a modest beginning with the Nicke Appache rocket launch with sodium vapour payload on Nov. 21, 1963.

sodium vapour payload on Nov. 21, 1963. The launch vehicle development programme later shifted from Thumba to

the Sriharikota launching station in 1969. The ISRO's maiden venture in developing satellite launch vehicle was itself a failure

with the SLV-3 failing due to malfunctioning of first stage control system in August 1979. Undeterred by it, the developmental flight of SLV-3 attempted in 1983 brought

happy tidings for the ISRO as the satellite sent home more than 2,500 pictures. While the Augmented Satellite Launch Vehicle (ASLV) launched in 1987 had problems in

thrust power due to malfunctioning in first stage motor, its successor sent in July 1988 was a miserable failure as it could last only about 150 seconds before it met with its watery grave in the Bay of Bengal. In May

1992 ISRO launched the ASLV-3 which hoisted the Stretched Rohini Satellite (SROSS). Its successor launched in May 1994 was a success

Major Achievements

1962: Indian National Committee for Space Research (INCOSPAR): formed by the Department of Atomic Energy, and work on establishing Thumba Equatorial Rocket Launching Station (TERLS) near Trivandrum began

1963: First sounding rocket launched from TERLS on November 21, 1963

1965: Space Science & Technology Cenire (SSTC) established in Thumba 1967: Satellite Telecommunication Earth Station set up at Ahmedabad.
1972: Space Commission and Depart-

ment of Space setup.

1975: First Indian Satellite, Aryabhata, launched (April 19. 1975)

1979: Bhaskara-1, an experimental satellite launched. First experimental launch of SLV-3 with Rohini satellite on board failed.

1980: Second experimental launch of SLV-3 Rohini satellite successfully placed in orbit.

1981: APPLE, an experimental geostationary communication satellite successfully launched on June 19.

1981: Bhaskara-II launched on November 20.

1982: INSAT-1A launched (April); deactivated in September.
1983: Second launch of SLV-3.RS-D2

placed in orbit. INSAT-1B launched.

1984: Indo-Soviet manned space mission (April). Rakesh Sharma became the

first Indian to reach space
1987: ASLV with SROSS-1 satellite on board launched.

1988: First Indian remote sensing satellite, IRS-1A launched. INSAT-1C launched (July). Abandoned in November.

1990: INSAT-1D launched successfully.
1991: Launch of second operational

Remote Sensing satellite, IRS-1D (August)

1992: Third developmental launch of ASLV with SROCC-C on board (May). Satellite placed in orbit. First indigenously built satellite INSAT-2A launched successfully.

1993: INSAT-2B launched in July success-

विधियमाची डिक्कामीं शु

3order Management

India has 15106.7 km. of land border unning through 92 districts in 17 States and a coastline of 7516.6 km. touching 13 States and Union Territories (UTs). India also has a cotal of 1197 islands accounting for 2094 km. of additional coastline. In fact, barring MP, Chhattis-garh, Jharkhand, Delhi and Haryana, all other States in the country have one or

the point of view of border management.

The length of India's land borders with neighbouring countries are:

nore international borders or a coastline

and can be regarded as frontline States from

Length of the border Country Bangladesh 4096.7 km. China 3488 km. Pakistan 3323 km Nepal 1751 km. Myanmar 1643 km Bhutan 699 km. Afahanistan 106 km.

Central Police Forces

There are 7 Central Police Forces under the Union Government, namely Assam Rifles (AR), Border Security Force (BSF), Indo-Tibetan Border Police (ITBP), Central Reserve Police Force (CRPF), Central Industrial Security Force (CISF), Sashashtra Seema Bal (SSB) and National Security Guard (NSG).

Tackling Natural Calamities

The Ministry of Home Affairs is the nodal ministry for tackling natural calamities. MHA remains in touch with the affected State Governments during crises and coordinates emergency relief and response of the Central Gov-

emment which includes search, rescue and evacuation, air dropping and air lifting, communication, transport, food grains and essential commodities, medicines, etc.

Facility to Freedom Fighters

Freedom fighters' pension has been sanctioned to 168906 persons including their dependants. They are provided various facilities like free railway pass, free medical facilities in all the Central Government hospitals and C.G.H.S. facilities, telephone connection without installation charges and payment of half the rental, General Pool Government accommodation in Delhi, 2% dealership/distributorship of petroleum products allotted through Dealer Selection Boards, etc.

Naxal and Maoist Activities

The Government has adopted a multipronged strategy to combat the problem of naxalism which inter alia includes peace talks with naxal outfits, accelerated economic development, increased employment opportunities, removal of socio-cultural alienation of the people, and effective anti-naxalite police actions. The incidents of naxalite violence were 1335 during 2004 (as on October 31, 2004) in the country and the number of deaths during 2004 (as on October 31, 2004) 468.

Issue of Passport/Visa

Fourteen types of visas are issued to foreign nationals for different purposes. The number of registered foreigners living in India (excluding Pakistanis) as on 31.12.2003 was 3,34,574.

alice dequipal

The ISRO space programme has come along way from a modest beginning with the Nicke Appache rocket launch with sodium vapour payload on Nov. 21, 1963. launch vehicle development programme later shifted from Thumba to the Sriharikota launching station in 1969. The ISRO's maiden venture in developing satellite launch vehicle was itself a failure with the SLV-3 failing due to malfunctioning of first stage control system in August 1979. Undeterred by it, the developmental flight of SLV-3 attempted in 1983 brought happy tidings for the ISRO as the satellite sent home more than 2,500 pictures. While the Augmented Satellite Launch Vehicle (ASLV) launched in 1987 had problems in thrust power due to malfunctioning in first stage motor, its successor sent in July 1988 was a miserable failure as it could last only about 150 seconds before it met with its watery grave in the Bay of Bengal. In May 1992 ISRO launched the ASLV-3 which hoisted the Stretched Rohini Satellite (SROSS). Its successor launched in May 1994 was a success.

Major Achievements

1962: Indian National Committee for Space Research (INCOSPAR): formed by the Department of Atomic Energy, and work on establishing Thumba Equatorial Rocket Launching Station (TERLS) near Trivandrum began.

1963: First sounding rocket launched from TERLS on November 21, 1963

1965: Space Science & Technology Centre (SSTC) established in Thumba **1967:** Satellite Telecommunication Earth Station set up at Ahmedabad.

1972: Space Commission and Department of Space setup.

1975: First Indian Satellite, Aryabhata, launched (April 19, 1975)

1979: Bhaskara-1, an experimental satellite launched. First experimental launch of SLV-3 with Rohini satellite on board failed.

1980: Second experimental launch of SLV-3 Rohini satellite successfully placed in orbit.

1981: APPLE, an experimental geostationary communication satellite successfully launched on June 19.

1981: Bhaskara-II launched on November 20.

1982: INSAT-1A launched (April); deactivated in September.

1983: Second launch of SLV-3.RS-D2 placed in orbit. INSAT-18 launched.

1984: Indo-Soviet manned space mission (April). Rakesh Sharma became the first Indian to reach space

1987: ASLV with SROSS-1 satellite on board launched.

1988: First Indian remote sensing satellite, IRS-1A launched. INSAT-1C launched (July). Abandoned in November.

1990: INSAT-1D launched successfully.

1991: Launch of second operational Remote Sensing satellite, IRS-1D (August)

1992: Third developmental faunch ASLV with SROCC-C on board (May). Colite placed in orbit. First indominally satellite INSAT-2A faunche

1993: INSAT-28 launche

fully. First developmental launch of PSLV with IRS-1E on board fails.

1994: Fourth developmental launch of

ASLV successful (May). Second developmental launch of Polar Satellite Launch Vehicle (PSLV) with IRS-P2 successful (October).

1995: INSAT-2C launched in December. Third operational IRS (IRS) launched.

1996: Third developmental launch of PSLV with IRS-P3 successful (March).

1997: INSAT-2D launched in June becomes inoperational in October. Arabsat 1C, since renamed INSAT-2DT, acquired in November. First operational launch of PSLV with IRS-1D successful (September).

1998: INSAT system capacity augmented with the readiness of INSAT-2DT acquired from Arabsat (January).

1999: INSAT-2E the last satellite in the multi-purpose INSAT-2 series, launched by Ariane from Kourou French Guyana (April 3, 1999). IRS-P4 (OCEANSAT) launched by Polar Satellite launch Vehicle (PSLV-C2) along with Korean KITSAT-3 and German DLR-TUBSAT from Sriharikota (26 May 1999).

2000: INSAT-3B was launched on 22 March 2000.

2001: Geosynchronous Satellite Launch Vehicle-D1 (GDLV-D1), the first developmental launch of GSLV with GSAT-1 on board partially successful.

2002: INSAT-3C launched successfully by Ariane space (January), PSLV-C4 launches KALPANA-1 (September)

2003: GSLV-D2, the second developmental launch of GSLV with GST-2 successful (May).

2004: First operational flight of GSLV (F1) successfully launches EDUSAT (Septemher).

2005: Launch of CARTOSAT and HAMSAT by PSLV-C6 from the second launch pad-(Universal Launch Pad) (May)

2006: INSAT 4A launched. Planned launch of CARTOSAT-2 SRE and LAPAN-TUBSAT

2006: INSAT 4C launch was unsuccessful The ISRO decade plan include the following launch schedule:

2005-2006: One PSLV launch (PSLV-C7). Launch of CARTOSAT -2, SRE-1, INSAT-4A and INSAT-4B.

2006-2007: One PSLV launch, (PSLV-C8), and three GSLV launches (GSLV-D3, F2,F3). Launch of OCEANSAT-2, GSAT-4, INSAT-4C and INSAT-4D.

2007-2008: Three PSLV launches (PSLV-C9, C10, C11), two GSLV launches (GSLV-F4, F5) and one GSLV-III launch (GSLV III-D1). Launch of CHANDRAYAAN, ASTROSAT, RISAT-1, GSAT(MKIII), INSAT-3D and INSAT-

addente in Executive

n 1951 India's literacy was only 18.3 percent. Today the rate stands at 64.8 percent. Quite a big leap for independent India. However, India continues to lag behind several other developing countries in the region.

China's adult literacy rate was 78.3 in 1990 and 85.8 in 2001, when India reported 49.3 and 58.0 respectively. Sri Lanka posted youth literacy rate of 95.1 (1990) and 96.9 (2001) while India's rates were 64.3 and 73.3 respectively.

literates in India grew by 52 percent in 1981-91 and 59 percent in 1991-2001. The absolute number of illiterates increased during 1981-91 but substantially declined during 1991-2001.

Census data indicate that the number of

The National Policy on Education (1986) provides a broad policy framework for eradication of literacy and sets a goal of expenditure on education at 6 percent of the GDP. As against the goal of 6 percent, the total expenditure on education by both central and state governments was only 3 percent of GDP in 2002-03. Literacy rates in India (1951-2001)

Census	Persons	Male	Female	Male-Fe-
Year				male gap in
				literacy rate
1951	18.33	27.16	8.66	16.30
1961	28.30	40.40	15.35	25.05
1971	34.45	45.96	21.97	23.98
1981	43.57	56.38	29.76	26.62
1991	52.21	64.13	39.29	24.64
2001	64.84	75.85	54.16	21.69
Source	: Census	of Ind	ia	

Elementary education

In order to fulfil the goal of universal elementary education, Constitutional (86 Amendment) Act, 2002 has been passed by the Parliament.

A comprehensive programme called Sarva

Shiksha Abhiyan (SSA) was launched in November 2000 in partnership with the States. The programme aims to improve the performance of the school system through a community-owned approach and to impart quality elementary education to all children in the age group of 6-14 by 2010. It seeks to bridge gender and social disparities at the

elementary level. It subsumes all existing

programmes, including externally aided

programmes, within its overall framework,

with the district as the unit of implementa-

tion. National Programme for Education of Girls at Elementary Level (NPEGEL) has been launched for education of girls at elemen-

tary level under SSA.

and 2.45 lakh upper primary schools in 2002-03. During 2001-02 and 2002-03 the growth rate of enrolment for girls at the elementary level was higher than that of boys. Participation of girls at all levels of school education has improved appreciably over the years, but vast disparities amongst the States in Gross Enrolment

There were 6.51 lakh primary schools

persist with States in the North-East performing better than others. Of the estimated population of 205 million in the age group of 6-14 years on March 1, 2002, nearly 82.5 percent was enrolled in schools, compared with 82.4 percent in

2001-02. The student retention at the primary school stage was about 59 percent

(1992-1997). At the primary level, the dropout rate decreased from 39 percent in 2001-2002 to 34.9 in 2002-2003. At the upper primary level, the dropout rate decreased from 54.6 percent in 2000-2001 to 52.8

Ratio (GER) at primary/upper primary level

girl students was 33.7 percent and 53.5 percent at the primary and upper primary levels respectively, in 2002-2003. The Pupil Teacher Ratio (PTR) at the primary level has remained more or less constant at 43:1 during 2001-02. At the upper primary level, it was 34:1.

over the same period. The drop out rate of

Adult Education

The National Literacy Mission was launched on May 5, 1988 as a Technology Mission to impart functional literacy to nonliterates in the country in the age group of 15-35 years in a time-bound manner. The

National Education Policy-1986 as modified

in 1992, also has recognized the National

Literacy Mission as one of the three instru-

ments to eradicate illiteracy from the country, the other two being Universalisation of Elementary Education and Non-formal Education.

The Mission objective is to attain a sustainable threshold literacy rate of 75 percent by 2007. The Total Literacy Campaign (TLC) has been the principal strategy of National Literacy Mission for eradication of illiteracy in the target age-group.

Secondary Education

The Secondary Education sector prepares students in the age group of 14-18 years for entry into higher education as well as for the world of work. The number of secondary and senior secondary schools during 2002-03 is 1,37,207 with an enrolment of students of 33.2 million.

University & Higher Education

There has been an impressive growth in the area of university and higher education. Accreditation of all Universities and Colleges has been made mandatory. Students' enrolment in higher education rose from 7.26 million in 1997-98 to 9.51 million in 2003-04. Enrolment of women students rose to

3.81 million with women constituting 40 percent of the total in 2003-04. There has been a significant increase in the students' enrolment under Open and Distance Education System.

At present, there are 306 university-level institutions in India (including 18 Central Universities, 186 State Universities, five Institutions established under State Legislature Act, 80 Deemed Universities and 13 Institutes of national importance). Of these, 38 Institutions provide education in agriculture (including forestry, dairy, fisheries and veterinary science), 21 in medicine (including Ayurveda), 44 in engineering and technology, and four in Information Technology, four in Legal Studies. The number of Open Universities is nine and that of Women Universities is five.

Technical and Professional Education

There are 1,349 approved engineering colleges at the degree level. Apart from this, 1,030 institutes offer a Master of Computer Application (MCA) programme. There are 990 approved Management Institutes imparting MBA courses.

griftwo/meilgons-clini

Though foreign in its origin, English has been adopted in India as a language of education and literary expression besides being an important medium of communication on a vast scale. Its history in India commences with Ram Mohan Roy's (1774-1833) campaign for introduction of scientific education in India through the English medium. He could use the English language effectively though

he learnt it only after he was 16 years of age. But when Vivekananda spoke and wrote in English, Americans described him as a 'perfect master of the English language'.

Among those whose writings in prose are considered as literature the name of Jawaharlal Nehru (1889-1964) stands out. He is particularly remembered for his Climpses of World History, Discovery of India and An

to have cultivated English carefully. The language became a sharp and strong instrument in his hands. His precision, economy and clarity in the use of English is unequalled. Nirad Choudhuri (b. 1897-1999) is an internationally accepted writer of English. His Autobiography of an Unknown Indian (1951)

We have the extraordinary girl Toru Dutt

(1855-76) who died at 21 leaving some fine

poems; and then we have Sarojini Naidu

(1879-1949) whose romanticism charmed

readers in India and Europe. (Golden Thresh-

old, The Broken Wing). Aurobindo (1872-

1950) who had his education in Cambridge

is particularly well known.

Autobiography (1936). Gandhiji is reported

mastered not only English, Greek and Latin but also French and Italian. (Savitri, Life Divine-2 vols). Tagore's Gitanjali won the Nobel Prize in 1913. The lyrical quality of Gitanjali is universally accepted. During the contemporary period, we have quite a few Indians, who write poetry in English: Dom Moraes (A Beginning, which won 19-year-old undergraduate of Oxford University the prestigious Hawthornden Prize). Nissim Ezekiel (The Unfurnished Man), P. Lal, A.K. Ramanujan, Kamala Das, Arun Kolatkar, R. Parthasarathy, etc. Dom Moraes also produced excellent autobiographical works Son of My Father and Never at Home. Keki Daruwalla and Shiv K. Kumar are other noted names. In the field of Indian English novel, the

three senior writers who began to write in the

early thirties are Mulkraj Anand, R.K. Narayan

and Raja Rao. Anand's major novels Coolie

(1933), Untouchable (1935), The Woman

and the Cow (1960) reveal his concern for

R.K. Narayan has projected 'Malgudi' as

the locale for most of his stories. Swami and

His Friends (1935), Bachelor of Arts (1937),

The Financial Expert (1952), The Guide (1959)

and Waiting for the Mahatma (1955) are his

the underprivileged in India.

Khushwant Singh, Nayantara Sahgal, O.V. Vijayan and Salman Rush-die. As regards drama and the essay the con-tribution is not substantial. Among the critics and historians of literature are K.R. Sreenivasa Iyengar, C.D. Narasimhaiah and M.K. Naik. Other big names in Indo-Anglian writing include Ruskin Bond (The Room on the Roof) Vikram Seth (A Suitable Boy), Allan Sealy (The Trotter-Nama), Shashi Tharoor (Show Business, The Great Indian Novel), Amitav Ghosh (Circle of Reason, Shadow Lines), Upamanyu Chatterjee (English August), Vikram Chandra (Red Earth and Pouring Rain), Shobha De, and Ginu Kamani. Indian writing has thrown up names of the calibre of Manjula Padmanabhan (The Harvest), Booker-winner Arundhati Roy (The God of Small Things), Manju Kapur (Difficult Daughters), Raj Kamal Jha (The Blue Bed Spread),

popular novels. Raja Rao's Kanthapura (1938),

The Serpent and the Rope (1960) and The

Cat and Shakespeare (1965) are significant

Other novelists of repute are G.V. Desani

(All About H. Hatterr, 1948), M. Ananthanarayanan, Bhabani Bhattacharya, (who died in

the U.S. in 1988), Manohar Malgonkar, Arun

Joshi, Kamala Markandaya, Anita Desai (Clear

Light of Day, 1980), Bharati Mukherjee,

achievements.

baloo In A Guava Orchard, Inheritance of Loss), Ruchira Mukherjee (Toad In My Garden), Shashi Tharoor (Riot: A Novel), David Davidar (A House of Blue Mangoes), Kavita Daswani (Everything Happens For A Reason) and Rohinton Mistry (Family Matters).

Recent works include Gautam Malkani's Londonstani, Upamanyu Chatterjee's Weight

Anurag Mathur (The Inscrutable Americans),

Manil Suri (*The Death of Vishnu*), Pulizer Prize winning Jhumpa Lahiri (*The Interpreter of*

Maladies, The Namesake), Kiran Desai (Hulla-

Loss, Manju Kapoor's Home and Amitav Ghosh's The Hungry Tide. .

HallhScanio= Imporancoi Gudic Gare

Dr.N.Sudhayakumar M.D.,D.M.

Principal and Head of the Dept. of Cardiology, Medical College, Kottayam

eart diseases contribute a major share in the health problem of India. The faster pace of industrialization and also the inroad of the Western culture have added to the menace of health care issue. These factors increase the stress load and also the risk of development of major factors which may contribute to the occurrence of heart diseases. Maladjustments and social, psychological and financial strain that occur when we try to artificially put the foreign customs and culture into our well reputed ones lead to alteration in the body's natural physiologic mechanism that can lead to a variety of major illnesses including heart disease. One such classical example is the shift from the sacred joint family set up to the present shattered nuclear family concept (reality).

Heart diseases do not constitute a homogenous entity; different types of heart diseases exist. In the chronological sequence the common heart diseases can be grouped as (a) congenital heart disease (present at birth; occurs due to derangement in the development of embryo in foetal life) (b) rheumatic heart disease affecting the cardiac valves (secondary to the disease "rheumatic fever" which occurs during school age) (c) hypertensive heart disease (persistent increase in the blood pressure - hypertension) (d) coronary artery heart disease (eg: heart attack and angina which results from the narrowing of the coronary arteries which supply oxygenated blood to the heart) and (e) miscellaneous group eg: cardiomyopathies (disease of heart muscle), pericardial diseases (affecting pericardium which is the protective covering of the heart), degenerative diseases (due to the ageing process) etc.

Cardiovascular diseases account for a large population of all deaths and disability all over the world. Global Burden of Disease (GBD) Study (2000) reported that in 1990 there were 5.2 million deaths from cardiovascular diseases in economically developed countries and 9.1 million deaths from the same cause in developing countries. In developing countries this occurred more in relatively younger age group - more than half of the deaths in developing countries occurred in those under 70 years. In 1990 cardiovascular diseases caused 2.3 million deaths in India which accounted for 25% of the total deaths. Of this half was due to coronary artery heart disease. By 2020 this number is likely to get doubled.

As per the data of the GBD study the leading causes of death in developing countries like India are ischemic heart disease (9.1%), cerebrovascular disease (8%), lower respiratory infection (7.7%), AIDS (6.9%) and lung diseases (8.7%). Apart from the death rate, disability plays a central role in the health status of a population. The leading causes of disability are substantially different from those of death. Lower respiratory infections rank as the leading cause of death in developing countries. However heart disease especially ischemic heart disease contribute significantly to disability in countries like India.

Burden of coronary heart disease in India

As mentioned earlier, in 1990 1.2 million deaths in India were due to coronary heart disease which has increased to about 1.59 million

in 2000 and this is likely to double by 2020 (compared to a 15% rise in developed countries). This would extrapolate to about 32 million patients with coronary heart disease in India in 2000, compared to 2.7 million in UK.

Epidemiological studies have revealed that the prevalence of coronary heart disease (CHD) is on the rise in India. There is a difference between rural and urban population. The

prevalence has increased in urban areas from

about 6% in 1970 to about 10% in 2000; while in rural areas it has increased from 2% to 4.5%. Whether there is an actual increase or the hike is due to improvement in the detection of cases (as awareness and health care system have improved) is debatable. In terms of absolute numbers there is a very steep increase in CHD cases in both rural and urban areas. In urban population the number of patients with CHD has increased from 4.5 million in 1970 to about 14 million in 2000 whereas in rural population it

Burden on Health Care System

As the prevalence of CHD is increasing the number of hospital admissions is also on the rise. This is increasing the burden on health care system. A study from Kerala has shown

that there has been a more than twentyfold

increase in admissions for heart attack over a

As per the projected epidemiological data,

has increased from 4 million in 1970 to about

16 million in 2000. As the epidemiological stud-

ies exclude many patients with silent CHD, the

period of 25 years. Economic burden

out of the 32 million patients with CHD in India roughly 8 million would be under some forms of treatment. The average expenditure for treatment comes to about Rs.10 per day ie. Rs.3500 per year. Hence the total financial burden for medical treatment alone comes to about Rs.3000 crores per year. This is in addition to the expenses involved for hospital visits,

laboratory tests, etc. The expenses related to more sophisticated tests and treatment (like coronary angiogram, angioplasty, bypass surgery) have also to be added.

Social burden Coronary heart disease manifests in Indians

at least 10 years earlier than the western population. Premature coronary heart disease causes significant social burden in terms of loss of support for children, women and the elderly. Exact loss to the family in terms of financial and social aspect of such an event is difficult to calculate

Prevalence of CHD among South Asians (Asian Indians) The terms "South Asians or Asian Indians"

include persons that originated in the Indian

subcontinent (India, Pakistan, Bangladesh,

Nepal, Bhutan & Sri Lanka) who form the im-

migrant populations that reside in different parts of the world. Obviously the majority of these will be the Indians and hence the term Asian Indians. It has been observed that Asian Indians throughout the world exhibit the highest prevalence of coronary heart disease and coronary risk factors. Asian Indians are known to have a higher occurrence of a constellation of coronary risk factors (central obesity, diabetes mellitus or pre-diabetes, high BP, high triglyceride (a type of bad cholesterol) levels and low level of the good cholesterol (HDL) – collectively termed as meta-

dians have a very high prevalence of CHD. The prevalence is low for Japanese and is lowest for Chinese population. CHD rates among Indians are six times higher than among Chinese. The higher prevalence rate of cardiovascular disease is partly attributable to the influence of affluence. The change in the culture to that of western and the changes in life style lead to a greater degree and duration of exposure to risk fac-

Compared to the other Asian population, In-

bolic syndrome.

tors. Differences have been observed in the exercise levels and physical activity patterns of Indians. A higher prevalence of sedentary life style and obesity has been observed in the urban compared to the rural communities. Genetic defects also may be contributing to the higher occurrence of CHD among the Indians.

Prevention

Coronary Artery Heart Disease (Ischemic Heart Disease)

Just like any other organ, heart requires oxygen for generating energy to perform its pumping function. Two major blood vessels, coronary arteries, arising from the origin of aorta supplies oxygenated blood to the heart muscle. As age advances, progressive narrowing of the coronary arteries occurs due to deposition of cholesterol and other materials in their walls. Normally this process, called atherosclerosis, which starts in childhood itself is a gradually progressive phenomenon. However until the blood vessel is narrowed by more than 50% of its diameter, the process will not interfere with the blood flow and hence the disease will not manifest. Certain factors (risk factors) enhance the process of coronary atherosclerosis: the influence is very strong for certain factors which are labelled as major risk factors. Diabetes mellitus (elevated blood sugar), hypertension (high blood pressure), high cholesterol and smoking are considered to be the major risk factors. The most important aspect is the fact that all these factors are modifiable to a great extent and hence the need for stress on the prevention of the disease.

Coronary artery heart disease manifests in different ways — asymptomatic from one end to the catastrophic sudden death at the other end. But the common manifestations are angina, myocardial infarction (heart attack) and heart failure. Partial narrowing (but more than 50% of the diameter) results in angina and abrupt total occlusion leads to myocardial infarction. Damage to the heart muscle due to

defective blood supply causes dilatation of the heart and impairment of its pumping function. This status of the heart is called heart failure.

When the coronaries are narrowed by 50-75% of its diameter, patient starts experiencing the symptoms of angina on exercise; when the narrowing of the vessel exceeds 75% the symptoms appear at rest also. Angina is a symptom complex which includes (a) severe chest pain (located at the central part of chest in front) of a peculiar nature (tightness, feeling of compression, bursting) (b) radiation of the pain to other parts of body like inner aspect of arms (left more often than right), throat, lower jaws, back and upper part of abdomen (c) breathing difficulty (d) sweating, vomiting etc. The symptom is brief lasting about 10-30minutes.

Sudden total occlusion of the coronary arteries with a fresh blood clot results in a more serious disorder called acute myocardial infarction (heart attack). In this situation the heart muscles are damaged due to the total lack of oxygen supply to the region affected. Symptoms of heart attack are similar to those of angina but more severe and prolonged. Heart attack carries great significance in view of the high fatality and morbidity. About 5-10% of patients suffering from heart attack die before they reach the hospital and another 5-10% die during the initial few days of hospital stay. In addition, heart attack can lead to another major complication called heart failure which interferes with the normal activities of the patient. Hence the importance of prevention of the disease and critical care of such patients.

The progress of atherosclerosis can be prevented or retarded to a great extent and it is even possible to reverse the process. Life style modification and interventions to control the risk factors are the most important. As the process of atherosclerosis starts in childhood itself, the life style modification protocol should start in the younger age. Regular exercise, diet regulation and mental relaxation are the important aspects in life style modification.

Regular exercise should be encouraged from childhood itself. Now what we see is people starting exercise after they have already developed the manifestation of the disease (by this time the disease process has advanced fairly well). Walking, cycling, swimming or any dynamic games for about 45 minutes every morning are all very good activities that can maintain adequate body mass and also prevent the development of diabetes mellitus, hypertension, hypercholesterolemia etc. Exercises which yield mental relaxation like yoga, meditation etc are also very useful.

Diet restriction aimed at prevention of atherosclerosis also should be planned from early years of life itself. Quantity and quality of food are equally important to maintain ideal body weight and to reduce blood sugar and cholesterol. High fiber diet with lot of vegetables, pulses and fruits are ideal. The use of oil has to be restricted by avoiding oily and fried food items. Meal (especially red meat e.g.: beef, mutton etc) and milk and milk products also have to be avoided or restricted.

Prevention and/or modification of risk factors is of extreme importance in prevention of coronary artery disease. Quitting smoking can prevent not only heart disease but also other serious diseases like lung cancer. Diabetes mellitus, hypertension, hypercholesterolemia etc. can be controlled by regular exercise, diet regulation and proper medication.

Congenital Heart Disease

Eight out of 1000 live newborns have congenital heart disease. Though majority are simple problems, there is a sizable number which contribute to disability and death. Advances in the field of medical technology and care are laudable but it is adding to a tremendous financial and psychological burden to the family.

Exact reasons for the deranged development of foetus leading to occurrence of congenital heart disease are not identifiable in more than

95% of cases; hence prevention of this disease entity is also difficult. Nutritional deficiencies, inadvertent use of drugs, exposure to X rays and infections during early pregnancy are the identifiable factors which can be easily taken care of by appropriate caution, care and prevention strategies. However in majority of cases the exact cause is not identifiable and hence prevention of CHD is not an easy task. Familial background and propensity for existence of CHD in certain types of disease entities (e.g. Mongolism) contribute to occurrence of CHD. This can be tackled to a great extent by proper parental counseling. Recent advances in detection of CHD during foetal life itself by newer diagnostic modalities (eg: foetal echocardiography) have made the outcome brighter.

Rheumatic Heart Disease

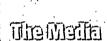
Throat infection by specific bacteria (streptococcus) in school children leads to development of a disease entity called acute rheumatic fever. During an epidemic of streptococcal throat infection about 3% of affected children may develop acute rheumatic fever within 2 weeks of the infection. As an immunologic sequel to the infection, rheumatic fever manifests as fever, pain and swelling of multiple major joints (shoulders, elbows, wrist, hips, knees, ankles), involuntary movements (called chorea), red patches over skin and small nodules underneath the skin. About half of the affected citadren will have involvement of heart in the form of inflammation (carcitis). As a consequence of the carditis these children can develop atnormality of the heart valves in the form of rarrowing (eq: mitral stancesis - narrowing of the valve between the two left heart characters, left atrium & left ventricle) or inappropriate closure of the valves leading to regurgitation of blood from one chamber to another (eg. micral regurgitation). Many times these acromaties are mild; however severe forms of valve disease can produce troublesome symptoms (breathing difficulty, palpitation, swelling of feet

etc) and disability. Advances in the field of surgery and non surgical techniques have resulted in a very bright future for these patients.
More important than the fact that effective

treatment is available for those with established rheumatic valvular heart disease is the reality that the disease entity is preventable. As the disease is secondary to a simple bacterial infection, prevention and prompt treatment of such infection can prevent an episode of rheumatic fever. Good environmental conditions, prevention of overcrowding, healthy hygienic care of children etc.

can prevent the infection to a great extent. Even

if throat infection develops, if it can be taken care of immediately with simple ancibiotic therapy, occurrence of rheumatic fever can be prevented. Once rheumatic fever has occurred, recurrences have to be prevented by regular periodic administration of antibiotics like penicillin (as such children are prone to recurrence of rheumatic fever). Vaccines to prevent development of the entity are also being evaluated. The fact that the incidence of rheumatic fever and rheumatic heart disease have come down drastically in Central Kerala is a proof for the concept that rheumatic fever is preventable.



ndia has a very active print and electronic media. The total number of newspapers and periodicals was 55,780 as on 31 March 2003.

Radio Broadcasting

Radio broadcasting began in India in the early 1920s. The first programme was broadcast in 1923 by the Radio Club of Bombay. This was followed by the setting up of a Broadcasting Service in 1927 on an experimental basis in Bombay and Calcutta. The government took over the transmitters and began operating them under the name Indian Broadcasting Service. It was changed to All India Radio in 1936.

All India Radio today has a network of 213 broadcasting centres covering 91.37% of the area and almost reaching the entire population of 100 crore. AlR broadcasts in 24 languages and

146 dialects. It has 149 medium wave frequency transmitters, 55 high Frequency Modulation (FM) transmitters.

Television

Television transmission began in India from a makeshift studio in the Akashvani Bhawan in New Delhi on 15th September 1959. A 500 watt transmitter carried the signal within a radius of 25 km. around Delhi. However, a regular service with a news bulletin became a reality only in 1965.

After seven years, the second television centre commenced service in Bombay. By 1975 TV service was available in Kolkata, Chennai, Srinagar, Amritsar and Lucknow. Colour transmission was introduced during the Asian Games held in New Delhi in 1982.

Top Dailies in India

Rank	Publication	Language	Circulation
1.	Dainik Jagran	Hindi	23,80,145
2.	Dainik Bhaskar	Hindi	19,42,525
3.	Malayala Manorama	Malayalam	13,95,191

٠.	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		• •
	Fortnightlie	s & Monthlies	
1.	Saras Salil	Hindi	9,19,660
2.	Vanitha	Malayalam	5,44,575
3.	Grih Shobha	Hindi	3,61,798
1 .	Meri Saheli	Hindi	3,79,706
5.	Grehlakshmi	Hindi	2,87,932
	An	nuals	
1.	Kalnimay	Marathi	52,02,635
2.	Kalnimay	Hindi	6,24,839
3.	Mallige Panchanga Darshini	Kannada	2,82,794
4.	Manorama Yearbook	English	2,07,594
5.	Sharadia Bartaman	Bengali	1,61,787
is Lon	ns්රකාdමකාලෙ	•	
		•	•

Bengali English

English

Telugu

Hindi

Tamil

Weeklies

Malayalam

Malayalam

Malayalam

Malayalam

Malayalam

The pivotal concept of Indian music

(Camatic and Hindustani) is Raga (melody).

Ragas are made of different combinations of

sapta (seven) swaras: Sa Sadjam; Ri Rishabam;

Ga Gaandhaaram; Ma Madhyamam; Pa

Panchamam; Dha Dhaivadam; Ni Nishadam.

Hindi

4,

5.

6.

7.

8.

9.

10.

1.

2.

3.

4.

5.

Ananda Bazar Patrika

Hindustan Times

The Hindu

Hindustan

Mathrubhumi

Mangalam

Balarama

Ananda Vikatan

Rajasthan Patrika

Malayala Manorama

Mathrubhumi Thozhilvartha

survive through oral tradition being passed on

by teachers to disciples. This has led to the

existence of family traditions called gharanas

A new form of Hindustani music known as

Khayal emerged during the 13th & 14th cen-

and sampradayas.

Eenadu

12,38,965

12,35,319

11,81,500

10,10,606

10,50,659

10,40,183

9,91,797

7,98,194

4,71,938

4,38,742

2,95,527

2,63,387

In Western classical, piano one octave consists of twelve notes whereas in Indian music the same octave contains 22 (srutis) notes. The twenty two srutis are called Siddha, Prabhavati, Kantha, Suprabha, Shikha, Diptimati, Ugra, Hladi, Nirviri, Dira, Sarphara, Kshanti, Hridayonmulini, Visarini, Prasuna, Vibhuti, Malini, Chapala, Vala, Sarvaratna, Sitantaj and Vikalini.

Swara is generally defined as a note whereas sruti constitutes the macrotonal intervals between two swaras. The nuances of these can be best understood in prayoga (practice) rather than theory.

Taala is defined as rhythm. But in vocal music or instrumental music taala plays a creative and organic part in bringing out the essence and elevating the musical expressions to new dimensions. The major taalas are Aadi Taala, a cycle of eight maathras (beats), Chautal or Eaka Taal consisting of twelve maathras mostly played on the Pakhawaj, Jhaptal consisting of ten maathras, Roopak taala of seven maathras, and Teen Tala of sixteen maathras.

Violin is a widely accepted musical instrument of foreign origin which has an unavoidable presence in Indian classical music.

Some of the famous musicians

Ariyakudi Ramanuja Iyengar (1890-1967) • Maharajapuram Viswantha Iyer (1896-1970) • Papanasam Sivan (1890-1973) • Mysore Vasudevachariar (1865-1961) • Madurai Mani Iyer (1912-1968) • M.D. Ramathan (1923-1984) • Chembai Vaidyanatha Bhagavatar (1896-1974) • Pt. Vishnu Digambar Paluskar (1872-1931) • Ustad Faiyaz Khan (1886-1956) • Pt. Omkamath Thakur (1897-1967) • Ustad Bade Gulam Ali Khan (1903-1968) • Pt. Malliakarjun Mansur (1910-1992) • Kumar Gandharva (1924-1992).

Some of the famous instrumentalists

Sarod: Ali Akbar Khan, Allauddin Khan, Amjad Ali Khan, Buddhadev Desgupta,

Bahadur Khan, Sharan Rani, Zarin S. Sharma **Tabla:** Alla Rakha Khan, Kishan Maharai, Nikhil Ghosh, Zakir Hussain

Violin: Baluswamy Dikshitar, Gajanan Rao Joshi, Lalgudi G. Jayaraman, M.S. Gopalakrishnan, Mysore T. Chowdiah, T.N. Krishnan

Sitar: Nikhil Banerjee, Ravi Shankar, Vilayat Khan, Hara Shankar Bhattacharya

Shehnai: Bismillah Khan

Flute: Hari Prasad Chaurasia, Pannalal Ghose, T.R. Mahalingam

Veena: K.R. Kumaraswamy Iyer, Doraiswamy Iyengar.

Dances

Dance in India has an unbroken tradition of over 2000. Two main divisions of its forms are classical and folk. Classical dance forms are based on ancient dance discipline and have rigid rules of presentation. Important among them are Bharata Natyam, Kathakali, Kathak, Manipuri, Kuchipudi and Odissi.

Folk dances of India vary according to the region and have no specific grammar. They fit in with the scheme of festivals in each region.

Some of the famous dancers

Bharatnatyam: Bala Saraswati, C. V. Chandrasekhar, Leela Samson, Mrinalini Sarabhai, Padma Subramanyam, Rukmini Devi, Sanyukta Panigrahi, Sonal Mansingh, Yamini Krishnamurthi

Kathak: Bharati Gupta, Birju Maharaj, Damayanti Joshi, Durga Das, Gopi Krishna, Kumudini Lakhia, Sambhu Maharaj, Sitara Devi

Kuchipudi: Josyula Seetharamaiah, Vempathi Chinna Sathyam

Manipuri: Guru Bipin Sinha, Jhaveri Sisters, Nayana Jhaveri, Nirmala Mehta, Savita Mehta

Odissi: Debaprasad Das, Dhirendra Nath Pattnaik, Indrani Rahman, Kelucharan Mahapatra, Priyambada Mohanty, Sonal Mansingh.

याजीपिटि वितर याचि दिवसी भाजी का भोडी

UR Ananthamurthy

have made a thorough survey into the is sue of the closure of a large number of Government schools in Kerala. The former Chief Minister, Mr. A.K. Antony, had invited me to be chairman of a committee to study this issue. One of the things which the government thought was ailing the system was the closing down of a large number of government schools and these schools had protected teachers. The other notion was that there was a fall in population in Kerala and there were not as many children, as they were, to attend school. But I found this to be a wrong assumption. Most children attended private schools because they wanted English. Parents, who could afford it, sent their children to private schools.

I also found that most private schools were staffed by teachers who were not as good as government school teachers, who were not only far superior in their teaching methods, but also continued to receive further training. English, as a language, was taught in government schools only from standard V. Hence, parents were ready to sacrifice good education, which they were getting in government schools, for very poor education being imparted in many English-medium private schools.

One of my suggestions to the government of Kerala to put an end to this was to give students, in government primary schools, English from standard I. Children need not be taught to read or write English because English is a very irrational language as far as writing skills are concerned. If you learn the Malayalam alphabet, you can read

Malayalam. If you learn the English alphabet, you cannot learn English. Hence, I suggested that children be taught to speak English, not read/write the language. I even suggested that teachers use subjects like cricket to get children to speak the language. Let the teacher initiate some discussion in English on the game of cricket. Give everyone a feeling that English can be domesticated and used. Making all kinds of mistakes does not matter because it is just another language for standard I students. Middle class parents would then send their children to good government schools. I also found that there were a couple of government schools in Trivandrum, which were sought after by parents, because many officials sent their children to these schools and ensured that the schools were good. I presumed that if all our children went to the same kind of school, a neighbourhod school, parents would take some interest in improving the school.

Common School Legislation

Nothing will improve the schools until we bring in the Common School legislation. If it is difficult to legislate for a common school, we can do two or three things. One, give common schools English from Standard I so that children, particularly in Kerala where they need a language skill because they cannot get jobs in their home state, get access to the English language. However, we could teach all other subjects in Malayalam because the learning skills are quicker in one's own language. After a certain level, if children have to shift to English medium, they will shift eas-

or so. Another concrete suggestion, which would find acceptance among middle class parents, is to ensure that in all English medium schools, one of the subjects should be taught in the mother tongue. I say this because boys and girls are now divided into classes—poor vs rich, underprivileged vs privieged. Let's not do that. Even privileged children, who attend English medium schools. should learn at least one subject in their own anguage, I suggested Humanities or Social Sciences because the only concern of most parents is that their children ultimately enter the ITs or medical colleges! So, they want only Science and Mathematics in English, This is a compromise. I am not saving that it is an ideal solution, but we can not remove English medium schools as the minorities have a right to start their schools. However, we can at least ensure that children's skills in Humanities are developed in their mother tongue.

ily, without any trauma. Now, there is a trauma in shifting to the English medium after class X

that children should not have to travel a long distance to attend school. It is a legislation that all private schools have a certain percentage of students from the neighbourhood. These children should be enrolled automatically and not through "interviews" because interviews for such young children are meaningless and every child has the right to education. As for the fees, because many parents may not be able to afford private school fees, the government should give private schools whatever money they had earmarked for these children in their own schools.

Concepts such as teacher training will not

There is a central legislation contemplated

work unless parents take an active interest and have a stake in their children's schooling. Parents will take an interest only when those who have a stake in education send their children to government schools.

There is some corruption also in the appointment of teachers. I have heard from teachers of aided schools in Kerala, where the salary is paid by the government but where teachers are selected by private school managements, that they had to pay between Rs.5-10 lakh to get a post. So I proposed, in my recommendations which are still pending before the government, that all teachers be selected through Public Service Commission. The managements of private schools should be allowed to choose teachers from this selected list. We hope, then, that there would not be much corruption.

If possible, a few other legislations can be made if there is a will. A teacher should be appointed to a particular school. This will ensure that teachers are not transferred frequently. A school develops because of the commitment of teachers who stay there for a few years. Those who have a need for the jobo know that they have to stay on at the place of their posting. It is a commitment which they must make, willy-nilly. It does not mean that the school should become a prison for the teacher! The fact remains that certain schools in backward areas never get teachers. The appointed teachers use their political influence and get transferred to a cushy place.

Creation of Knowledge

We have a wrong notion of education. We believe that education is knowledge transfer from the teacher to the students. Hence, there is a lot of learning by heart. I found whether in Kerala, Karnataka or anywhere in India, memorizing is a skill which is very useful in music, in poetry, in theatre but utterly useless in Science! The mode of instruction should be creation of knowledge, rather than transference of knowledge. The teacher and the students should create knowlege, together. I know of an instance where a child was very bothered that he could not see the moon at all on a particular day of the month! If a child is so bothered about the moon's disappearance, then there is immense potential to teach astronomy to the child. We haveto nurture a child's natural curiosity. Even our President makes a mistake. He

thinks that computers can help us. Not computers, but our fingers and our hands can help us. I would encourage a child to bring a broken radio to the classroom and take it apart

ken radio to the classroom and take it apart further, before putting it together. We should create knowledge that stays with the child. This needs a different kind of approach where textbooks will disappear. What ails education

everywhere is this business of textbooks.

There is a lot of corruption involved in writing textbooks. So, bad textbooks are written.

Children's education is postponed because

textbooks are not ready, on time. We can do

away with textbooks and instead have work-

books for the guidance of the teacher.

Many of the best schools, in Kamataka or Kerala, do not have a library. A library is not merely a place where you read/borrow books. There should be audio-visual equipment which the children can use to listen to music or play games. Audio-Visual equipment helps because at one time the ratio between the teacher and the pupils was good and strictly followed. Now, there are more pupils and few teachers. We can deal with the problem of lack of teachers

in some schools, by using audio-visual equip-

ment, wisely. Library hours must be shown in

the time-table. Children should be able to pull out any book they want and read what they

want. When schools choose their staff, the li-

brarian must be seen as a very necessary per-

son. What happens in most schools is that some teacher is given library work. This teacher uses the library only in his/her free time.

Today, a school is detached from its surroundings. This was not so in the past. Villagers went to a school teacher with their everyday problems. A village school teacher

would read/write their letters. A teacher, in

the past, was a part of the community. To

improve school education in India, the first

thing we should do is stop blaming teachers.

excuse for us not to do many things. We should make use of local resource people. If there is a good story teller in a taluka/village, make her a visiting teacher. She may not have any degree. She may even be non-literate. It does not matter. One of the skills, fast disappearing in our school system, is the capacity to tell stories. Children don't know how to tell stories. Story-telling, music and theatre should be important components of the school curriculum. To develop cultural skills in children, we should use people in the com-

munity such as good singers, talented theatre people and gifted story-tellers. There is a problem in every school when we evaluate a student. Students are usually marked on their mathematical and memory skills. First class or Second class is meaningless as far as the child's ability to learn is concerned. There is a subtle thing that can be done to change this. Sometimes, I find that the most mischievous student, who may not do well in English/Mathematics/Science, is the one who can dance; who can perform many tricks and who is a very good mimic. If cultural skills are made a part of the curriculum-extra curricular and co-curricular are very wrong words to use, please drop these words-it helps to draw the

'Maths, a Birthright'

overall protrait of the child.

Regarding Mathematics, which is often considered a bugbear, we should adopt the slogan 'Mathematics is the birthright of every child.' As a teacher, do not assume that Mathematics is only for the skilled ones.

Talso want the SSLC exams to be removed.

Quite a few unnecessary deaths happen decause of class X board exams. There should be a rule that students who are in class X will go to class XI. Sut if a student wisher them as his, her present school to clin another school, then there can be an examifor such students are are disclosed to the students.

make many innovations. To overcome the weaknesses of many schools, we can make "clusters" of schools. A school cluster could help in the evaluation of teaching methods and improvement of teachers' skills. Evaluation is not an ultimate judgement to be passed on the student. Instead, it is part of the creative process of teaching and learning.

The Right to Education should apply till class XII. There should be a long period to develop children's skills. In class XI and XII, if art has been made part of the curriculum, some extraordinarily gifted children should be able to opt for cultural subjects. I had some experience of this when I was in Kerala. The parents of a boy called Shankaran Namboodiri, now a very famous vocalist, came to me and said their son was short of attendance and would not be able to take his exams. I told them the whole idea was silly! I believed that Shankaran Namboodiri had as much of a right to take the exam as much as he had to create music. Why should we think that what he is doingcreating music-is meaningless and a waste? We should change the whole idea of education so that all skills are accounted for.

These are some measures which can succeed only if we have faith in the Common Schools where children of various capacities and abilities learn together. It is a challenge for teachers to devise methods by which they can cater to slow learners and fast learners.

More than any other state in India, I think Kerala is at the take-off point. It has achieved full literacy. In the Muslim districts, where I had some of my best meetings, people were very eager that their children received regular, mainstream education. They wanted their daughters to attend school. So far as people's attitudes were concerned, there was no problema t all. The Muslims were very eager for mainsteam education although they wanted their 'madrasas'. They were willing to make adjustments between the 'madrasas' and the mainstream school. When you have that

kind of willingness of the people, then there is no real problem.

The problem is with us. In our desire to maintain a certain kind of class system in having different kinds of schools, we do not pay enough attention to common schools. There is a lot for every child to learn from another child, in a common school. We should treat children as equal; as capable of any learning. Assumptions that children from affluent families are better than children from low income families are not well tested. There may be other psychological factors that make children, from low income families, slow learners. It is the responsibility of the school to overcome such problems. Then, there will be fewer drop-outs.

Children Belong to Society

Children belong to the whole society and not merely to their parents. A child cannot be abused. Making a child travel in a bus for 2 hours to reach school is an abuse. We should stop this. Neighbourhood schools are a good solution in a country like India where there is such a variety of people, castes and classes. If one has to have the sense of being an Indian citizen at the end, you need 'mixing' in schools.

I have talked to great creative people in Kerala like Adoor Gopalarkishnan and M T Vasudevan Nair and they agree with me that what made them creative is partly the fact that they went to a common chool. I came from a very orthodox family. In my village, I used to wear a shirt to school and an 'angavastram' at home. I would hang my shirt on a nail when I entered the house. I believe and I say that I became a writer because of the shirt I wore, but not because of the 'angavastram'. The shirt I wore brought me in touch with children from other castes. It was another world altogether compared to my world at home. This is not happening now.

The kind of world, which children are exposed to at school, especially at the present, is a replica of their world at home. They meet

children who have the same toys and tools. I think this damages the learning process. Learning is also about learning how to live in a difficult country like India. The poor have such great survival skills and our rich children never come to know these skills. If our children are not street-wise, it means there is something lacking in their education.

Unfortunately, there is a lobby against

vate schools, especially in Kerala. To empower the commons chools, we should teach spoken English. Everyone sees that those who know English get everything done, relatively easily. When I recommended this, there was an attempt to make it seem as if I were speak-

common schools; a very strong lobby of pri-

ing for English. It is not so. The Indian languages have always had to struggle—first with Sanskrit, now with English. Children need access to whatever is power today. We may criticize it, but the fact remains that knowing English is power today. But we must be conscious of the kind of English we wish to promote. English today is not a gateway to knowledge as it used to be in our times. Today, it's a language of the market forces. We must be aware of the dangers of this.

Our ideal should be Central Schools. In India, the Central Schools, with all their faults, have a certain achievement which every government school should aim at.

(As told to Kavitha Srinivas)

चुन्याति विद्यात्राच्य

Jacob Easow, Engineer-Planner Senior Town Planner, Department of Town and Country Planning, Kerala

is, in a sense, the sign and the success of the development process. Its success reflects the validity of Town Planning principles and strategies. Its failure and the resulting frustration, functional chaos, environmental degradation, unemployment and poverty, hunger and distress, bankruptcy, etc. point to the weakness and contradiction of the whole system.

he city, throughout the developing world

It is fashionable these days in the developing world to condemn urbanisation as a costly and undesirable phenomenon, and urban growth as a menace. The large city is indeed considered as the symbol of the relative failure of urban planning. Urbanisation is inevitable, when pressure on land is high, agricultural income is low, and population increase is excessive. Even where rural jobs are availof economic opportunity and social mobility. It should be recognized that urbanization is not a calamity but a necessity. Urbanisation is a positive force and urban growth is an impetus to development. Both accelerate industrialization to some extent, they permit change in the social structure by raising the level of human aspiration, facilitate the provision of public services to a large sector of the population, and make possible increased economic opportunities and improve living conditions for those people who remain in the rural areas.

able, drift to cities occurs, as it offers a promise

The positive role of urbanisation can be materialized only if the cities are economically viable and capable of generating economic growth in a sustained manner. Urban and Regional Planning should be given due

consideration for building our cities / settlements as vibrant centres.

The Plan

In order to translate long-range goals and short-term objectives for the orderly development of a planning area, a tool (with technical guide lines and legal backing) is used by the town planner and this tool is known as 'Plan'. This Plan is a guideline or blueprint for the future development of the area. These Plans are known variously as 'Master Plan', 'Development Plan' 'Comprehensive Development Plan', General Plans' 'Structure Plan' etc, depending on the type of planning approaches and concepts. Plans are prepared in various hierarchies like region, city/town/village, and local.

Urban and Regional Planning process is a research-oriented exercise. It comprises two principles namely, theory in planning and theory of planning, former means the concepts taken from other disciplines and latter the concepts derived or arrived from the analysis of an existing settlement.

Ideals of Planning

Garden City Concept: This concept was defined in 1919 by the Garden City Association in agreement with Ebenezer Howard, the Father of the Garden City: "A Garden City is a Town designed for healthy living and industry; of a size that makes possible a full measure of social life but not larger; surrounded by a rural belt; the whole of the land being in public ownership or held in trust for the community". It is not a colony, but a complete working city for a population of 30,000 and more with a large central park containing public buildings surrounded by a shopping street. The central park and shopping street are surrounded by dwellings in all directions at a low density. The outer circle of factories and industries and the whole is surrounded by a permanent green belt.

La Ville Contemporaine (Concentric City): The City of Tomorrow for 3,00,000 people was proposed by Le Corbusier in 1922. This scheme was a city of magnificent sky scraper towers surrounded by broad and sweeping Sixty-storey office buildings open space. accommodating 1,200 people per acre and covering only 5% of the ground area were grouped in the heart of the city. The hub of the transportation centre consists of motor and rail lines, the roof of which is the airfield. Surrounding the skyscrapers was the apartment district, eight-story buildings arranged in zig-zag rows with broad open spaces. Outskirts were laid with the garden cities of single family houses. The residential zones

Neighborhood Concept: Lewis Mumford in the book 'The Culture of Cities' (1938) advocated 'Neighborhood Unit Concept'. Usually a neighborhood unit is defined based on a set of social relationships. The physical size is determined by the convenient walking distance for children between the farthest house and the school and playground in which a major part of their activities are focused.

contain schools, shopping centres, and recre-

Masterpieces from India

ational facilities.

Jaipur: The city of Jaipur, the Pink City, can be described as a good example of a planned city. The city was built in 1753 on a carefully prepared plan, broad avenues and public buildings. Sawai Ramsingh gave the city its universal pink colour. Jaipur has originally well laid roads with geometric precision and arithemetic accuracy, systematically open squares and fountains.

New Delhi: The capital of Indiawas planned in 1911 by Sir Edward Lutyens and Sir Herbert Baker from England. It is laid out in the Versailles style of Renaissance.

Chandigarh: Chandigarh may be said to have started a new movement in the plan-

ning of towns and public buildings in India. The famous architect-planner of French origin Le Corbusier in collaboration with Maxwell Fry and Jane Drew of England and P.L Varma, chief engineer of the state prepared the master plan of Chandigarh. The city is planned for a population of 500,000 and conceived as a human body. Thus placed the Secretariat building and the Legislature Complex, being the head and the brain of the city, at the top (northern end). Industries were placed at the southern end, to give a strong footing or base to the city, as the legs do. The city-centre being the heart was placed at the centre. The entire communication system was conceived as arteries and blood vessels, to interconnect the various parts of the city and to facilitate the smooth flow of men and

Recent Trends

materials.

Sustainable Development Approach
Since the presentation of the Brundtland

Commission's report Our Common Future in (WCED, 1987), the term 'sustainable habitat' (sustainable urban development) has been increasingly used by Urban Planners. Different physical solutions have been launched as models for a sustainable city/ habitat. Also, different procedures have been recommended to lead current town plan and development on to a more sustainable course.

Several dimensions of physical form and spatial structure are discussed in the light of the main criteria of a sustainable development. If a sustainable development is to be achieved, it is necessary to avoid further urban sprawl. Low density, dispersed cities can hardly be energy efficient. Therefore a strategy for more compact cities was proposed with long-term and global goals. The Plan in this approach is termed as sustainable devel-

Smart Growth and New Urbanism
Perhaps the most valuable tool in the Smart

opment plans.

Growth toolkit is New Urbanism. While Smart Growth principles support higher density, mixed-use, walkable environments, New Urbanism is proving to be the most successful method for making these Smart Growth goals achievable. New Urbanism is an urban design movement that aims to reform urban planning and real estate development toward building more human-scaled and walkable communities. It is a reaction against the predominant development pattern of the mid-to late-20th century-low-density, generic development types that are separated by use and tied together by roadways and parking lots. New Urbanism is strongly influenced by the traditional urban patterns that dominated up to the 1920s, although it modifies these patterns to address the contemporary realities of the demand for larger homes, the greater use of automobiles and large scale retail formats. It reforms the design of built environment, and is about raising the quality of life and standard of living by creating a better place to live. New Urbanism is the revival of our lost art of place-makeup and is essentially a reordering of the built environment into the form of complete cities, towns, villages and neighborhoods. New Urbanism implies fixing and infilling cities, as well as the creation of

Walkability-Most things within a 10 minute walk of home and work

compact new towns and villages. The prin-

Connectivity –Pedestrian network Mixed-use and diversity Mixed housing

ciples of New Urbanism are

Quality architecture and urban design

Traditional neighborhood structure Smart Transportation – A network of high-

quality train
Sustainability – Minimal environmental impact, Eco-friendly technologies, Energy efficiency, more local production more walking, less driving

Quality of Life. Enrich, uplift and inspire the human sprints.

Amendment Act in 1992 was the major event

in democratic decentralization in India. The

state of Kerala, well known for imparting edu-

cation, healthcare, public distribution system,

etc down to grass-root level, has been a pioneer on decentralized planning also. In 1996.

a new planning process was introduced in

Participatory Spatial Planning Enactment of constitution 73rd and 74th

Kerala through the launching of people's campaign for decentralized planning, popularly known in Malayalam as 'Janakeevasoothranam'. People's planning campaign was successful in terms of both participation as well as allocation of funds but lacked scientific skill of development planning such as spatial planning techniques and use of modern technologies. Such an innovative experiment for the preparation of development plans is now being implemented as a pilot project in Kollam District of Kerala State. The basic concept was designed in 2003 by the Department of Town Country Planning, Kerala. Ur-Babylon, Khafage and Eshnunna are good examples of oldest organized settlements in Euphrates and Tigris river basins. Description by Herodotus on Ur-Babylon says that it extends to an area of 1400 acres with a population of 2000 in a square pattern 120 furlong each way. Roads are all straight and in grids with bronze gates at entry. A river cuts the city into two but is surrounded by a great wall. Another great wall encircles the

In this concept two level plans are prenared simultaneously- one at the lowest tier of local government (Panchavat / Municinalities) i.e.Local Development Plan (LDP): and other for the District as a whole, an Integrated District Development Plan (IDDP). Here, the direct participation of people is ensured through village/ward sabhas and various working groups ensure the balanced involvement of elected representatives, government departments, NGOs, stakeholders, etc. This is the uniqueness of this participatory town planning process. Unlike other spatial plans prepared in this country, specialty of IDDP and LDP is that the sectoral polices of various development agencies of the planning area are translated to spatial plans. The concept of the planning process based on a combination of top-down and grass-root-up approach is a good example for multi-level planning. Thus 100 percent planning of the district, both in regional level(IDDP) and settlement level (87 LDPs), for Kollam is expected to complete by the end of 2006, which will become a model for

Planning of Early Towns

city centre. Royal Palace and ziggurat (Temple), located face to face on the bank of the river is surrounded by a wall. Ziggurat is one furlong square built with clay bricks and

having eight storeys. Primary communica-

tion of town is by water.

other districts of India.

In the Indian Sub-continent, towns like Mohanjodaro and Harappa of the Indus Valley civilization are the most important. Carbon test of the excavation reveals the approximate period of the civilization as 3000 BC or earlier, Historians claim that the identifiably independent culture at Mohanjodaro and Harappa was marked by developments of wheels, use of metals, knowledge of arithmetics, use of coinage, art of expression and representation, and architecture and planning techniques. Both towns are located along the trade routes of the Indus River.

शिक्तींगुरिक्वीळावस उच्चिक

Capital

State/UTS

3(a(e) 013	Capitai	GOVERNORS	
Andhra Pradesh	Hyderabad	Rameshwar Thakur	Dr. Y.S. Rajasekhara Reddy
Arunachal Pradesh	Itanagar	Shilendra Kumar Singh	Gegong Apang
Asom	Dispur	Lt.Gen.(Retd.) Ajai Singh	Tarun Kumar Gogoi
Bihar	Patna	R.S. Gavai	Nitish Kumar
Chhattisgarh	Raipur	Lt. Gen.(Retd.) K.M. Seth	Dr. Raman Singh
Goa	Panaji	S.C. Jamir •	Pratapsingh Raoji Rane
Gujarat	Gandhinagar	Nawal Kishore Sharma	Narendra Modi
Haryana	Chandigarh	Dr. A.R. Kidwai	Bhupinder Singh Hooda
Himachal Pradesh	Shimla	Just. Vishnu Sadashiv Kokije (Retd.)	Virbhadra Singh
Jammu & Kashmir	Srinagar (Summer) Jammu (Winter)	Lt. Gen. (Retd.) S.K. Sinha	Ghulam Nabi Azad
harkhand	Ranchi	Syed Sibtey Razi	Madhu Koda
Karnataka	Bangalore	T.N. Chaturvedi	H. D. Kumaraswamy
Kerala	Thiruvananthapuram	R.L. Bhatia	V. S. Achutanandan
Madhya Pradesh	Bhopal	Balram Jakhar	Shivraj Singh Chauhan
Maharashtra	Mumbai	S.M. Krishna	Vilasrao Deshmukh
Manipur	Imphai	Dr. Shivinder Singh Sidhu	Okram Ibobi Singh
Meghalaya	Shillong	M.M. Jacob	J. D. Rymbai
Mizoram	Aizawal	Lt. Gen. (Retd.) M.M. Lakhera	Zoramthanga
Nagaland	Kohima	Shyamal Datta	Neiphiu Río
Onssa	Bhubaneswar	Rameshwar Thakur	Naveen Patnaik
Punjab	Chandigarh	Gen (Retd.)S.F. Rodrigues	Captain Amannder Singh
Rajasthan	Jaipur	Smt. Praubha Paul	Smt. Vasundhara Raje
Sikkim	Gangtok	V. Rama Rao	Pawan Chamling
Tamil Nadu	Chennai	Surjit Singh Barnala	M. Karunanioni
Tripura	Agartala	Dinesh Nandan Sahaya	Manuk Sarkar
Uttar Pradesh	Lucknow	T.V. Rajeswar	Mulayam Singn Yadav
Uttaranchal	Dehradun	Sudershan Agarwal	Narain Butt Tiwari
West Bengal	Kolkata	Gopal Krishna Gandhi	Buddhadev Shattacharya
		onal Capital Territories	
Capital Territory	Capital	Lt. Governor	Crief Minister
Deihi	Delhi	B.L. Joshi	Smt. Greia Sikmit
Union Territories			
State/UTS	Capital	Lt. Governors/Administrator	Crief Minister
Andaman & Nicobar		Lt. Gen. (Retd.) M.M. Likners	
Chandigarh	Chandigarh	Gen.(Retd.) S.F. Roongues /Acministrator,	
Dadra & N Havela	Silvassa	Rajnikant Verma (Acministrator)	-
Daman & Diu	Daman	Rajnikant Verra Gerministrator	
Lakshadweep	Kavaratti	Rajendra Kumar (Administrator)	-
Puducherry	Pondicherry	Mukut Mitrs	· Paracolari

Covernors

Chief Ministers

ndia, for administråtive purposes, is divided into the national capital territory of Delhi, 28 states, and 6 centrally administered

union territories. States: Andhra Pradesh, Arunachal Pradesh, Assam, Bihar, Chhattisgarh, Goa, Gujarat, Haryana, Himachal Pradesh, Jammu & Kashmir, Jharkhand, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Manipur, Meghalaya, Mizoram, Nagaland, Orissa, Punjab, Rajasthan, Sikkim, Tamil Nadu, Tripura, Uttaranchal, Uttar Pradesh, West

Union Territories: Andaman and Bengal. Nicobar Islands, Chandigarh, Dadra & Nagar Haveli, Daman & Diu, Lakshadweep, Pondicherry.

National capital territory: Delhi

Top 10 States of India	Population in 2001		
Rank State/UT			
1. Uttar Pradesh	166,052,859		
2. Maharashtra	96,752,247		
	82,878,796		
3. Bihar	80,221,171		
4. West Bengal	75,727,541		
5. Andhra Pradesh	62,110,839 60,385,118		
6. Tamil Nadu			
7. Madhya Pradesh	56,473,122		
8. Rajasthan	52,733,958		
9. Karnataka	50,596,992		
10. Gujarat	20,220,21		
បាីs	973,829		
1. Pondicherry	900,914		
2. Chandigarh			
3. Andaman and N			
4. Dadra and Naga	158,059		
Daman and Diu			

States of India - areawise

States of India - areawise	s s lm)
Rank State/UT Size	(Area in 34. King
	342,236
1. Rajasthan	308,144
2. Madhya Pradesh	307,713
3. Maharashtra	275,068
4. Andhra Pradesh	238,566
5. Uttar Pradesh	222,236
6. Jammu and Kashmir	196,024
7. Gujarat	191,791
8. Karnataka	155,707
9. Orissa	135,194
10. Chhattisgarh	
UTs	ar Islands 8,249
UTs 1. Andaman and Nicob	1,483
2. Delhi	492
3. Puducherry	491
4. Dadra and Nagar H	laveli 144
5. Chandigarh	

Beginning of States & UTs

The period between 1947 and 1950 witnessed the consolidation of the former princely states into new provinces, usually governed by a Rajpramukh, (Governor) appointed by the Governor-General of India. In 1950, the Indian constitution took effect, the office of the Gov

ernor-General was abolished, and India cre ated several different categories of states. Part A states, which were the former pro inces, were ruled by an elected governor a state legislature. The Part A states (nine) we Assam, West Bengal, Bihar, Bombay, Madi Pradesh (formerly Central Provinces and Ber Madras, Orissa, Punjab, Uttaranchal, and U

Pradesh (formerly United Provinces). The Part B states (eight) were former prin states or groups of princely states, gove by a Rajpramukh. They were Hyderabad, Saurashtra, Mysore, Travancore-Cochin, Madhya Bharat, Vindhya Pradesh, Patiala and East Punjab States Union (PEPSU), and Rajasthan.

The Part C states (ten) included both former princely states and provinces. They were governed by a chief commissioner. The Part C states included Delhi, Kutch, Himachal Pradesh, Bilaspur, Coorg, Bhopal, Manipur, Ajmer, and Tripura.

J&K had special status until 1957. The Andaman and Nicobar Islands was a territory, ruled by a governor appointed by the Indian president.

The French enclaves of Pondicherry, Yanam, Karaikal, and Mahe, were administered by India after 1954, formally becoming a Union Territory in 1962. Dadra and Nagar Haveli was occupied by India in 1954, and Goa, Daman, and Diu in 1961, and they subsequently became UTs.

In 1953, the Telugu-speaking portion of Madras state voted to become the new state of Andhra Pradesh, the first of India's linguistic states.

In 1956, when the States Reorganisation Act took effect, the distinction between part A, B, and C states was gone, and instead state boundaries were drawn along linguistic lines. The new states, mostly the former Part A states, were Assam, West Bengal, Bihar, Maharashtra, Gujarat, Kerala, MP, Madras, Mysore, Orissa, Punjab, Rajasthan, and UP. Delhi, Himachal Pradesh, Manipur, Tripura, Pondicherry, the Andaman and Nicobar Islands, and the Laccadive, Minicoy, and Amandivi Islands became Union Territories. The remainder of the states were merged into the new states or UTs.

Several new states and UTs were created out of existing states since 1956. Haryana was created in 1966 out of Punjab. The UTs of Arunachal Pradesh, Meghalaya, Mizoram, and Nagaland were created out of Assam. In 2000, 3 new states were created; Jharkhand was created out of Bihar, Chhattisgarh out of MP,

Facts about India

•Standard time: 82°30'E•Most Populous District: Medinipur • Least Populous District: Yanam • Most Literate District: Aizawl • Largest State (areawise): Raja-sthan • Smallest State: Goa • Most Populous State: UP • Least Populous State: Sikkim • Southern most point: Indira Point • Max. N-S distance: 3,214km • Max. E-W distance: 2,933km • Golden Quadrilateral connecting 4 metros: distance: 5846km • Major Ports on coastline: 12: (181 others).

and Uttaranchal out of UP. The Kingdom of Sikkim was annexed to India as a state in 1975. In addition, several Union Territories have become states, namely Goa, Arunachal Pradesh, Meghalaya, Mizoram, and Nagaland.

Before 1947

The British India, was made up of two types of states, the Provinces and the Princely states. Provinces were ruled directly by British officials, either a governor or a chief commissioner, who were appointed by the Viceroy. Princely states were ruled by local, hereditary rulers, who acknowledged British sovereignty in return for local autonomy. British India had 15 provinces: Ajmer-Merwara, Assam, Baluchistan, Bengal, Bihar, Bombay, Central Provinces and Berar, Coorg, Delhi, Madras, Northwest Frontier, Orissa, Punjab, Sind, and United Provinces. British India had hundreds of princely states, which differed in size, and with wide variation in population. Most of the princely states were under the authority of a British political agent responsible to the governor of a province, but the four largest princely states, Hyderabad, Baroda, Mysore, and Jammu and Kashmir, were directly under the authority of the Governor-General of India. The Portuguese and the French had territories in India: Portuguese occupied Goa, Daman and

Rank of States (Categorywise)

	Rank of States (Categorywise)												
					1001	~			iteracy	SC		ST	
Rank	Pop	ulation	A	rea		Der	nsity			UI	D	MP	
	1			Raias	sthan		elhi	• • •	erala		/B	Mal	harashtr
1	UP	aharashi	1	MP			handigarh		Aizoram .akshadweep	١.	ihar	Oris	ssa
2	Ma Bih				narashtra		uducherry	l	Ĭ	ι -	NP.	Gui	jarat
3	MI			ΑP	١	نا	akshdweep		Goa Chandigarh	1 .	 N		asthan
4	AP		1 '	UP	ŗ	١	Daman & Diu		Chandigaiii Delhi		Maharashtra	Jha	irkhand
5	Th		١.	į&K	ا .	1 '	NB		Deini A&N is.		Rajasthan		hattisga
6	M		1		ijarat	1 -	Bihar				MP	AP	,
7	1	12 .ajasthai	.		mataka	1 '	Kerala		Puducherry Daman & Dic	1 1	Karnataka	W	-
8		ajastnai Carnatak			rissa	1	UP		Maharashtra	- i	Punjab	Ka	arnataka
9	1	tarnata: Gujarat			hhattisgarh	۱ ۱	Punjab	1			Orissa	1	som
10		Jujarat Orissa	ļ		amil Nadu		TN	١	HP	1	Haryana	M	1eghalay
11	- 1	Orissa Kerala	į	ı	ihar	1	Haryana	ļ	TN		Gujarat		lagaland
12	٠ ١	Keraia Jharkha	-nd		Vest Bengal	i	D&NH	١	Tripura	1	Jharkhand		&K
13	٠ ١.	•	iliu		runachal	1	Goa	1	Uttaranchal	1	Kerala		ripura
14	. 1	Asom			harkhand	1	Asom		Manipur	1	Chhattisgar	1	Mizoram
15	- 1	Punjab		1 -	Asom	-	jharkhand		Punjab		Delhi		Bihar
10		Haryar	na ttisgarh	ı	HP		Maharashtra		Gujarat	1	Asom	1	Maniput
	7	L .			uttarancha	ıl lı	Tripura		Sikkim	1	Uttarancha	1	Arunach
	18	Delhi			Punjab	1	AP		WB		HP	· .	TN
	19	J&K	anchal	- 1 '	Haryana	1	Karnataka		Haryana		J&K		Kerala
	20	1	anciiai		Kerala	1	Gujarat		Karnataka		Tripura	- 1	Uttaran
	21	HP		1	Meghalay	ra I	Orissa		Nagaland	L	1	- 1	HP
	22	Tripu	ura _J halaya	1	Manipur	•	MP		Chhattisg	arn	Puducher	~ \	D&NH
	23		gnalaya nipur	1	Mizoram		Rajasthan		MP		Manipur		Sikkim
	24	1		١	Nagaland		Uttaranchal		Asom		Sikkim	1	UP
	25	1 -	galand	١	Tripura		Chhattisga	.rh	Orissa		Goa		Laksha
	26		a Inachal	,	A&N Is.		Nagaland		Meghalay	ya	Meghala	va	A&NI
	27	- 1 .	inaciiai ducherry		Sikkim		HP		AP		Arunach	yu al	Dama
	28	١.	aucheny iandigart		Goa		Manipur		Rajastha	n	Daman	a. G Di	1
	29		ianuigaii izoram	•	Delhi		Meghalaya	a	D&NH		Daman D&NH	⊅.	Punja
	3(- 1	kkim		Puduche	erry	J&K		UP		Nagalar	hd	Chan
	3	1	kkim KN Is.		D&NH	-	Sikkim		J&K		Mizorar		Hary
	_	-	&NH		Chandi		A&N Is.		Arunach		Lakshd		Delh
	_		aman&C	λių	Daman		iu Mizoram		Jharkha	na	A&N is		Pud
			akshadw		1			al	Bihar				
								h	main ind	ept	endent, but 1	hei	nterven
		Dis at	ad Dadr	аар	id Nagar P	lave	eli, while French	j b			, made Hydi	erabi	ad a pa

Diu, and Dadra and Nagar Haveli, while French had 5 enclaves - Chandernagore, Yanam, Pondicherry, Karaikal, and Mahe.

India and Pakistan, in 1947, divided its provinces and princely states along religious lines. Hyderabad's Muslim ruler tried to remain independent, but the interver Indian army made Hyderabad a pa India and Pakistan contested for co princely state of J&K because the Muslim majority, but its Hindu to India.

Andhra Pradesh

Pate of Formation: 1 Oct. 1953 Andhra Part A state created from part of Madras; 1 Nov. 1956 Andhra Pradesh State.

Area: 2,75,069 sq. km. Capital: Hyderabad

Neighbouring States/UT: Maharashtra, Chhattisgarh, Orissa, Karnataka, Tamil Nadu, Yanam (Pondicherry),

Population: 7,210,007; Males: 38,527,413; Females: 37,682,594; (a) Population Density: (persons per sq. km.): 277 (b) Sex Ratio: (Females per 1000 Males): 978

Literacy: (per cent): 60.5; Males: 70.3; Females: 50.4.

Population

(2001)

Head.

quarters

Area

(sa km)

Females: 50.4

District

No. of Districts: 23

	(sq km)	(2001)	quarters				
Rayalaseem	a Regio	n					
Anantapur	19,130	36,39,304	Anantapur				
Chittoor	15,152	37,37,437	Chittoor				
Cuddapah	15,359	25,92,048	Cuddapah				
Kurnool	17,658	35,24,073	Kutnocl				
Andhra Region							
E. Godavari	10,607	48,97,777	Kalunada				
Guntur	11,391	44,55,445	Guntur				
Krishna	8,734	41,81,071	Mudicpinam				
Nellore	13,076	26,65,009	Nellore				
Prakasam	17,626	30,54,921	Ongole				
Srikakulam	5,837	25,31,752	Snkakulam				
Visakhapatnam	11,161	38,16,820	V. Patnam				
Vizianagaram	6,539	22,43,354	Vizianagaram				
W. Codavan	7,742	37,99,213	Eluru				
Telangana I	Region						
Adilabad	16,128	24,89,312	Adılıbad				
H ₂ derabad	217	38,26,094	Hyderabad				
Karimnagar	11,823	35,00,876	Kanmnagar				
Khammam	16,029	25,69,158	Khammam				
Mahaboob			Mahabocb				
บริติน	18,432	35,09,182	กมสูงร				
Medak	9,699	26,63,783	Sangareddy				
Nalganda	14,240	32,45,400	Nalgonda				
Nizamabad	7,956	23,39,459	Nizamabad				
Ranga Reddy	7,493	35,87,891	Hyderabad				
Warrangal	12,846	32,41,864	Warrangal				

Villages: 28123; Towns: 210 Governor: Rameshwar Thakur CM: Dr. Y.S. Rajasekhara Reddy Legislative Bodles: State Legislature: Unicameral - Seats: 294 (Reserved: SC-39, ST-15); Lok Sabha Seats: 42; Rajya Sabha Seats: 18 (The Parliamentary Standing Committee on Law and Justice has recommended reinstituting Legislative Council under Art. 169. It was abolished in 1985.)

Main Political Parties: Indian National Congress, Telugu Desam Party, Telengana Rashtra Samithi, Communist Party of India (Marxist), Communist Party of India, All India Majlis-E-littehadul Muslimeen, Bharatiya Janata Party, Bahujan Samaj Party, Samajwadi Party

Seat of High Court: Hyderabad (Kurnool was the first capital of the Andhra state with the high court established at Guntur)

Chief Languages: Telugu and Urdu Major Religions: Hinduism, Islam, Chris tianity

Main Towns: Hyderabad, Secunderabad, Karimnagar, Sirpur, Visakhapatnam, Vijaya wada, Cuddapah, Kakinada, Anantapur, Adilabad, Warangal, Nellore, Rajahmundry

Geography: (a) Rivers Godavari, Krishna, Chitravati, Papagni, Musi, Pranhita, Wainganga, Banda, Tungabhadra (b) Mountains: (Mt. Range- Eastern Ghat), Nalamala Hills, Satmala Hills, Erramala Hills, Horsley Hills, Palikonda Range, Velikonda Range; (c) Plateau: Telengana, Golconda, Rayalasima, Srisailam, Nalgonda, Waraangal, Khammani; (d) Lake: Pulicat, Kolleru, Nagarjuna Sagar, Nizam Sagar. (e) Forest . 63,000 aq. km.

Economy: (a) Minerals: Chrysolite asbestos, barytes, copper ore, manganese, mica, coal and limestone. (b) Industries: machine tools, synthetic drugs, pharmaceuticals, heavy electrical machinery, fertilizers, cement, electronic equipment, watches, chemicals, asbestos, glass, etc.; (c) Agricultural Polymar, bajra, maize, ragi, smicastor, tobacco, cotton, and products are cashew, euca

Transport & C

Length: National h

km., and State highways cover 60,453 km. There are 103.814 km of panchavati roads: (b) Railway Length: Railway routes cover 5.085

km: (c) Main Railway Stations: Hyderabad. Secunderabad, Guntakal, Warangal, Renigunta, Vijayawada, Visakhapatnam; (d) Air-

ports: Hyderabad, Tirupati, and Visakhapatnam: (e) Ports: Visakhapatnam, Kakinada,

Machilipatnam, Bheemunipatnam, Krishnapatnam, Vadarevu and Kalinga-patnam.

Employment: ('99-00)- 30,614,000; Unemployment; ('99-00)- 8.03%.

Education: * (a) Schools: 91453; (b) Colleges:1536; (c) Universities: 28.

Religious Places: Tirupati in Chittoor district is famous for Venkateswara temple situ-ated on the hilltop Tirumalai: the temple of Sriramachandra, Bhadrachalam; the Mallika-riunaswami temple. Srisailam: the Ahobala temple, Srikurmam temple and the Simha-chalam temple are other famous temples. Prashanthi Nilayam at Puttapurthi, is the abode of Sri Satya Sai Baba, Lepakshi, Mahastupa (Amaravati), Mecca Masiid, the largest mos-que in south India, are the other

vals: Samkranti - Jan (Harvest festival; Visakha-Jan; Shivratri - Feb/Mar; Ugadi - Mar (Telugu New Year); Mahakali Yatra and Mrigasira-Jun/Jul; State Formation Day - 1 Nov. Industrial Exhibition - Jan/Feb.

Culture: (a) Dances: Kuchipudi: (b) Festi-

Arunachal Pradesh

Date of Formation: 20 Feb 1987 State: 21 Jun 1972 Union territory created from part of Assam.

Area: 83,743 sq km Capital: Itanagar

attractions.

Neighbouring States/Countries:

Assam, Nagaland, (countries) Bhutan, , Myanmar, China.

Females: 518.027: (a) Population Density: 13: (b) Sex Ratio: 901

Literacy: 54.3: Males: 63.8: Females: 43.5.

No. of Districts: 13

District Population Area Head-(2001) (sq km) quarters 1.24.994 Changlang 4.662 Changlang Dibang Valley 13.029 57.543 Anini East Kameng 4.134 57.065 Seppa 4.005 87,430 East Siano Pasighat Kuruna Kumev Laving-Yanote Cohit 11,402 1,43,478 Tezu Lower Subansiri 10.135 97.614 Ziro Papum Pare 2.875 121.750 Itanagar (Yupia) Tawang 2.172 34,705 Tawana Tirap 2.362 1,00,227 Khonsa Upper Siang 6.188 33,146 Yinakiona 54,995 Upper Subansiri 7,032 Daporijo West Kameng 7,422 74,595 Borndila

8.325 Villages: 4,065; Towns: 17

Governor: Shilendra Kumar Singh CM: Gegong Apang.

West Siang

Legislative Bodies: State Legislature: Unicameral - Seats: 60 (59 seats reserved for ST): Lok Sabha Seats: 2: Raiva Sabha Seats: 1

1.03,575

Along

Main Political Parties: Indian National Congress, Bharatya Janata Party, Nationalist Congress Party, Arunachal Congress...

Seat of High Court: Guwahati Chief Languages: Monpa, Miji, Aka,

Sherdukpen, Nyishi, Apatani, Tagin, Hill Miri, Adi, Digaru Mismi, Idu-Mishmi, Khamti, Miju-Mishmi, Nocte, Tangsa, Wancho.

Major Religions: Buddhism, Hinduism, Christianity.

Main Towns: Itanagar, Tawang, Bomdila, Ziro, Seppa, Daporijo, Along, Pasighat, Yingkiong, Anini, Tezu, Khonsa, Walong.

Geography: (a) Rivers: Siang (name of Brahmaputra), its tributeries - Lohit, Subansiri, Dibang, Kameg, Dikrong River (famous for

watersports). (b) Mountains: Great Himalaya,

Lesser Himalaya, Assam Shiwalik: Dafla Hills,

Miri Hills, Mishmi Hills, Abor Hills Peaks: Population: 1,097,968; Males: 579,941; Shallum-4336, Ddaphabum-4578; (c) Pass Bum La, Tse La, Tunga, Yonggyap, Diphu. Kumjawng, Hpungan, Chaukan, Pangasau (d) Forest: 60% of the state (e) Wildlife: Namdapha NP, Monling NP.

Economy: (a) Minerals: Coal, dolomite, marble, lead, zinc, graphite; (b) Industries: sawmills, plywood (these two trades however have been stopped by law), rice mills, fruit preservation units and handloom handicrafts:

(c) Agricultural Products: Among the crops grown here are rice, maize, millet, wheat, pulses, sugarcane, ginger and oilseeds. Arunachal is also ideal for horticulture and fruit orchards. [Agriculture is the primary driver of the economy. Jhum, the local word for shifting cultivation, which was widely practised among the tribal groups has come to be less practiced. The forest-products are the next most significant sector of the

Transport & Communications: (a) Main Railway Stations: Bhalukpong; (b) Airports: Itanagar, Daparjio, Ziro, Along, Tezu, Pashigat.

Shopping: Handicrafts, jackets, bags, Sherdukpan shawls are very popular.

Education: (a) Schools: 1901; (b) Col-

leges: 9; (c) Universities: 1

economyl

Culture: (a) Dances: Popir, Aji Lama, Hiiri Khaning, Cham, War dance; (b) Festivals: Mopin, Solung, Lossar, Booriboot, Dree, Si-Donyi, Reh, Nyokum, Chalo-loku.

Asom (Assam)

Date of Formation: 26 Jan 1950

Area: 78,438 sq km.

Capital: Dispur

Neighbouring States: Meghalaya, Arunachal Pradesh, Nagaland, Manipur, Tripura, Mizoram, West Bengal

Population: 26,655,528; Males: 13,777,037; Females: 12,878,491; Urban Population: 12.72%; (a) Population Density: 340; (b) Sex Ratio: 932.

Literacy: 63,3%; Males: 71.3; Females: 54.6

No. of Disti	icts: 23		
District	Arca	Pupulation	الديما.
	(sq km)	(2001)	q_Ates
Barpeta	3,245	16,42,420	Barpeta
Bongagaon	2,510	906,315	Europa jaun
Cachar	3,784	14,42,141	Santar
Darrang	3,481	15,04,000	مبلخوا بفالا
Dhemaji	3,217	56%,469	Cherry
Dhubri	2,838	16,34,50)	Dinte
D.brugarh	3,381	11,72,056	Durujah
Gos/para	1,824	822,306	Coa; ara
Colaghat	3,502	945,781	College
Hallakandi	1,327	542,978	Hallearar
North Cachar H	.is 4,888	186,189	Halfory
Jorhat	2,851	10,09,197	Latur
Kamrup	4,345	25,15,030	Cunstati
Karbi Anglog	10,434	812,320	Diplay
Karimganj	1,839	10,03,678	Kararajara
Kokrajhar	3,129	930,404	kcārajhar
Lakhimpur	2,277	859,325 1	
Mongaon	1,704	775,874	Mangach
Nagaon	3,831	23,15,387	Nazadri
Nalban	2,257	11,38,184	feature.
Legal 2	2,668	10,52,602	عدر هدند ک
Sonitpur	5,324	16,77,874	Tespa
Tinsulua	3,790	11,50,146	Tinsuka

Villages: 26,312, Towns: 125

Governor: Lt. Gen. (Retd.) Ajai Singh

CM: Tarun Kumar Gogoi

Legislative Bodies: State Legislature Seats, 126; Lok Sabha Seats, 14, Ragya Sabha Seats: 7

Main Political Parties: INC, AGP, BIP, NCP, Trinamool Congress, Samata Party, Samajwadi Party,

Seat of High Court: Guwahati.

Chief Languages: Assamese, Bengali

Major Religions: Hinduism, Islam, Buddhism.

Main Towns: Guwahati, Dopor, Teapur, Silchar, Jorhat, Dibrugarh, Sibsagar, Karimganj, Tinsukia, Diphu, Dhemaj, Hagaon, Marigaon, Barpeta, Goalpara, Dhuburi, Bongaogaon, Nalbari

Geography: (a) Rivers: Brahmaputra, Manas, Subansiri, Sonai; (b) Mountains; Mikit Hills, Rengma Hills, Barail Range. (c) المناطرة Hills, Rengma Hills, Barail Range. Kaziranga National Park-Golaghat (Infor thinos and elephants), Manas NP-E

Moridaon, Dibru Stalkhow NP-Himukla. Laokhowa W5-Nagaon, Pobha W5-N.

Mameri Mational Park-Sonitous, Pobitora WS+

Lakhimpur, Orang W5-Sonifour Economy: (a) Minerals: Oil and natural

das, coal, florestone: (b) Industries: Auro Industries, refinery, cottage, handicialt, silk: (c)

Agricultural Products: Rice, Jule, tea, cotton,

oilseeds, sugarcane, potato, orange, pineapple, Transport & Communications (a) Road

Lenath: 14.000km:(b)RallwayLenath2.391.76 km.; (c) Main Rallway Stations: New Bandakaon. Maligaon, Dispur, Rangia, Lumding, Jorhat: (d) Almorts: Olbrugath, Guwahati, Jorhat, Silchar,

takhimour and fezour. Lemples: Kamakhya templo (Nilachathilis). Umananda mandir (Peacock b.), Navaoraha mandir (Chitrachal hill).

Shopping: Stalkuchl (Jamous for muga

silk, end) and pat). Handicrafts: bamboo articles, cane, brass and metal crafts, Assam is famous for varitles of slik, bandles, clay dolls, pottery, woodworks, mattresses, etc.

Educations' (a) Schools: 42485; (b) Colleges: 358; (c) Universities: 7

Imployment (99-00): 7,647,000; Unem-

ployment (99:00); 7, ployment (99:00); 8:0 1%, Culture (**) Cultures (a) Dances: Rongall Bibu, Bobaci

Blhu, Magh Blhu, Kongalk (b) fextivals: Balsakhl

Bihar

Date of Formation: 15 Aug., 1947 Prov. Ince; 26Jan. 1950 state (until 1956 : part (A)

Area: 94, 103 vg km

Capitali Patna

Neighbouring States/countries: Blackband, UP, West Bengal, (Nepal)

Population: 82,998,509; Males; 43,243,795; Fentales: 39,754,714; (a) Popu-

lation Density BB1; (b) Sex Batio 919 Citeracy: 47.0%; Males: 59.7; Females:

13.1.

No. of Districts: 3/ District Aica

(sa km) 2.197 21,24,831 Arada 70.04.960

Population

16,08,778

23.42.989

24, 10, 131

22.11.415

14,03,462

32.85.423

14.64.981

21,49,143

13,11,496

1.197.474

12.84.575

23.09.533

12.70.677

12,94,061

11, 15,499

5,25,137

15,24,596

15,70,651

12.43.836

23.68, 127

18,09,425

30,43,044

47.09.851

19,11,036

25,40,788

24.40.762

15,06,418

14.13.413

12.51.424

26,69,807

27,08,840

17,45,069

27,12,189

514,288

101.171

1.569

1,040

1.010

1.486

1.939

1.229

1.419

689

1,797

1,478

1.121

2.102

1.491

4,250

1.130

4.155

1.201

1111111

2.213

(2001)

Head

Araria

Banka

Busan

Caya

lamul

thabua

Katiliar

khagada

Lakhitaral

Munust

Micklimia

Madhepma

Madhubani

Muzallarinir Bibardianif

Nawada

Helliali

Patna

Perenta

Mobbati

Savaranii

Kalsassa

Chhapta

Micohat

Sitamathi

Shvan

Supaul

Hajipar

Samasthuu

Kishandani

Rectitaral

Bhagalour

Arrab(Arta)

Daibhanga

Constant

Hanabad

quarters

Auranostrad

1.189

Aurangahad Hanka 1.020 1.009 2.502

licemanai Bhanalour 2,13/ Minimur 1,634 Bunat 2,502 Darbhanga 4.941

CAVA Constant labanabad lanni

2.001 2.997 Kalentie

Katihar Khagaria kidiandani

Lakhbarat Munder Sheikhoura Madhenna

Madhubani Muzallarour Nalanda Mawada

Page Dierri Chambaran Purbi Champaran fanos Robbas

Saliana 1,196 Samastinur 2.579 Saran 2.024 Micobar 443 Mamathi 2.628

Siwan

Sugard 2.985 Valdrall 1,995 VIIIngest 45,098; Townst 130.

Governoritts Gaval CM: Nitish Kumar

Legislative Bodles: State Legislature: Bi-

cameral - Seats: 243, Legis, Council:25; Lok Sabha Seats: 40; Rajya Sabha Seats: 16

Main Political Parties: Bharatiya Janata Party, Rashtrya Janata Dal, INC, NCP, CPL BSP, CPI(M), Janata Dal (United), CPI, Samajwaadi Party, Lok Jan Shakti Party...

Seat of High Court: Patna

Chief Languages: Hindl, Undo, Santhalf

Major Religions: Hinduism, Islam, Buddhism, Christianity.

Main Towns: Gaya, Bihar Sharif, Bhagal-

pur, Purnia, Muzaffarpur, Bettah, Motihari, Siwan, Munger, Bhagalpur, Ara, Chhapra, Sasaram, Buxar.

Geography: (a) Rivers: Ganga, Gandak, Burhi Gandak, Son, Saryu (Ghaghara), Kosi,

Kamla, Panar, Saura, Lakhandai, Keul, Ghuari,

Pun-pun; (b) Mountains: Bapabar Hills,

Mandargiri Hills, Kharagpur, Rajgir, Mirzapur, Kaimur Plateau, Nawada Upland; (c) Plains

North Bihar Plains, South Bihar Plains, Saran, Lower Son, Bettiah, Motihari, Sitamarhi,

Madhubani, Saharsa, Aaria, Dharampur, Katihar, Bhagalpur (d) Valmiki Nat. Park

Economy: (a) Minerals: Ilmenite, Kaolin, Limestone, Mica, fuller's earth; (b) Industries: cotton spinning mills, sugar mills, jute mills

and leather industries; (c) Agricultural Products: rice, wheat, maize and pulses, cash crops like sugarcane, oilseeds, tobacco, jute

and potato.

Transport & Communications: (a) Road Length: 13412.80 km (in 2001); (b) Main Railway Stations: Patna, Muzaffarpur, Samastipur, Gaya, Katihar; (d) Airport Patna

Shopping: Sikki-stemmed colour-glass work, kasida-embroidery, sujamis and tikuliornamental works on glass, besides handi-

crafts, toys, metal works, etc. Education: (a) Schools: 54120; (b) Col-

leges: 790; (c) Universities: 23

Employment ('99-00): 30,355,000; Un-

Employment ('99-00): 7.32%.

Culture: (a) Dances: Seraikella; (b) Festivals: Chhath, tribal -Sarhul, Karam

Chhattisgarh

Neighbouring States 1/2 Colors

Date of Formation: 1 Nov. 2000 State Area: 1,36,034 sq km Capital: Raipur

Carguia-Koriya Dalik المستريخ المستراكة المتعادية المراكزة المناشرة المارة المناشرة

Area **Population** Head-

Andhra Pradesh, Maharashtra, UP Jharkhand

pulation: 20.08%; (a) Population Density 154;

Literacy: 64.7%; Males:77.4; Females:

Population: 20,833,803; 10,474,218; Females: 10,359,585; Urban Po-

(b) Sex Ratio: 990

51.9.

Raigarh

Rainandgaon

Raipur

Sarguja

No. of Districts: 16 District (sq km) (2001)quarters Bastar 17,016 13,02,253 Jagdalpur Bilaspur 8.569 19,93,042

Bilaspur Dantewada 15,610 7,19,065 Dantewada Dhamtari 4,081 7,03,569 Dhamtari Durg 8,702 28,01,757 Durg Janigir Champa 4,467 13,16,140 Janjqir 6.457 739,780 Jashpur Jashpur Kanker 6,434 6,51,333 Kanker Kabirdham 3,958 5,84,667 Kabirdham (Kawardha) (Kawardha) 5,769 10,12,121 Korba Korba 5,978 Kona 5,85,455 Baikunthour Mahasamund 4,963 8,60,176 Mahasamund

Villages: 20,308; Towns: 97. Governor: Lt. Gen. (Retd.) K.M. Seth

Seats: 90; Lok Sabha Seats:11; Rajya Satra

6,528

13,445

8,023

16,034

12,65,084

30,09,042

19,70,661

12,81,811 Rajnandgaon

Raigarh

Raipur

3-

٦,

٠,٢*

Ambikapur

CM: Dr. Raman Singh Legislative Bodies: State Legislature

Seats, 5 Main Political Parties: BIP, It iC, ECP, ICP

Seat of High Court: Bilaspur

Chief Languages: Hindi

Major Religions: Hindus

Main Towns: Raipur, قائدتانه المنتانية lagdalpur, Ambikapur, Pal !--------Ehilai, Dhamtari Geography: (a) Five: 12-22

rati, Pairi, Hasdo, Sox, Sata Malkala Range, Ranger de Park: Indravasi 1.9-5-

Economy: (a) Minerals: Copper, Coal, on, Limestone, Manganese and a diamond eserve; (b) Industries: most industries are nineral based like BALCO or Bhilai Steel plant,

or forest based; (c) Agricultural Products: endu leaves, chironji, harhar, baheda, mahu lowers and sal seeds - predominently forest

products

Transport & Communications: (a) Road .ength: 35388.54km NH-1827.30km;SH-

3611km (b) Railway Length 1053km; (c) Main Railway Stations: Raipur, Bilaspur, Durg, (orba, Raigarh, and Rajnandgaon); (d) Airports: Raipur, (Airstrips: Bilaspur, Bhilai,

agdalpur, Ambikapur, Korba, Jashpurnagar and Rainandgaon)

Education: (a) Schools: 33015; (b) Colleges: 218; (c) Universities: 9

Culture: (a) Festivals: Pola, Nawakhai, Dussehara, Diawali, Holi, Govardhan Puja.

Goa

Date of Formation: 30 May, 1987

Area: 3,702 sq.km Capital: Panaji

Neighbouring States: Karnataka, Maharashtra, Arabian Sea

Population: 1,347,668; Male: 687,248, Female:660,420; Urban Pop: 49.8%; (a) Population Density: 364; (b) Sex Ratio: 960

Literacy: 82.0%; Males: 88.4; Females: 75.4.

No. of Districts: 2

District	Area (sq km)	Population (2001)	Head- quarters
North Goa	1,736	7,57,407	Panaji
South Goa	1,966	5,86,591	Margao

VIIIages: 359; Towns: 44 Governor: SC Jamir

CM: Pratapsingh Raoji Rane

Legislative Bodies: State Legislature: Unicameral-Seats: 40; Lok Sabha Seats: 2, Rajya Sabha: 1.

Main Political Parties: BJP, INC, United Gomantwadi Democratic Party, NCP. Maharashtrabadi Gomantak Party.

Seat of High Court: Bombay.

A bench of Bombay High court is at Panaji. District Court is in South Goa.

Chief Languages: Konkani and Marathi Major Religions: Hinduism and Christianity

Main Towns: Panaji, Margao, Vasco, Mapusa, Ponda

Geography: (a) Rivers: Mandovi, Zuari, Terekhol, Chapora and Betul; (b) Mountains: Western Ghats; (c) Lake: Mayem; (d) Caves Khandepur, Arvalem. (e) Wildlife: Dr. Salim Ali Bird Sanctuary, the Bondia Wildlife Sanctuary, Cotigoa Wildlife Sanctuary, Molem National Park, Bhagwan Mahavir Wildlife Sanctuary, the Mormugao harbour. (f) Beaches: Bogmalo (water sports), Calangute, Colva, Mandrem, Morjim, Anjuna, Baga, Candolim, Sinquerim, Majorda, Benaulim, Varca, Agonda and Vagator.(g) Waterfalls: The Aravelam waterfalls-adjacent to it is Rudreshwara temple and interesting rock-cut caves, the Mayem lake, the Dudsagar waterfalls-little downward is the Devil's Canyon suitable for trekkers and hikers. Economy: Paddy is the main agricultural

crop, followed by ragi, cashew and coconut. The state has a rich forest cover of more than 1,424 sq.km. Fishing sustains a work force of 40,000 people. (a) Minerals: Iron ore, manganese, ferro-manganese, bauxite, silica sand; (b) Industries: Mining industries, small scale industries like breweries, fruit canning, fish canning, stoves, automobile batteries, printing press, computer peripherals, zip fastner, etc.; (c) Agricultural Products: rice, pulses, ragi, groundnut, maize, jowar, bajra, sugarcane, coconut, cashewnut, arecanut, pineapple, mango, banana. Transport & Communications: (a) Road

Length: National highway-224 km, state highways-232 km, district roads-815 km.; (b) Mangalore and Thiruvananthapuram through the Konkan railway; (c) Main Railway Stations: Margoa, Canacona, Balli, Verna, Karmali, Thivim, Pernem; (d) Airports: Dabolim International (29km from Panaji).; (e) Chief Port: Mormugao, Dona Paula.

Railway Length: Goa is linked with Mumbai,

Fort: Tiracol - built by Marathas in 1745, Cabo da Rama-juts into the sea, Cabo-now governor's house, Reis Magos-named after Biblical Magi Kings who is believed to have owned this place and the Aguada Fort- built by Portuguese between 1609-1612 - now used as central prison.

Cuisine: Sweets: Bebinca, Dodol, Sanna, Delicacies: Bangra, pork vindaloo, sorpotel, acuti, chourisso.

Education: (a) Schools: 1537; (b) Colleges: 39; (c) Universities: 1

Culture: (a) Dances: Fugdi, Dhalo (folk); Dekni, Kumbi, Bandhap (women); Mando (love - east-west mix), Ghode Mondi (Ranes victory over Portuguese), Goff & Hanpet Sword (during Shigmo), Dhangar (Navratri), Kala and Dashavtari; (b) Festivals: Carnival, Shigmotsav (Feb/Mar), Sabado Gordo (Feb), Beach Bonanza (Apr), Konkani Drama Fest (Nov/Dec).

Gujarat

Date of Formation: 1 May 1960

Area: 196,024 sq km Capital: Gandhinagar

. Neighbouring States/UT: Rajasthan, Maharashtra, MP, Damn-Diu, Dadra Nager Haveli, Pakistan (country), Arabian Sea.

Population: 50,671,017; Males: 26,385.577; Females: 24,285,440; Urban **Population:**37.35%; (a) Population Density: 258; (b) Sex Ratio: 921

6. Literacy 69.1%; Males: 79.7; Females: 57.8.

No. of Districts: 25

District	Area	Population	Head-
	(sq km)	(2001)	quarters
Ahmedabad	8,087	58,03,378	Ahmedabad
Amreli	7,397	13,93,295	Arrich
Anand	2,941	18,56,712	Anand
Banaskantha	10,757	25,02,843	Palanpur
Bharuch	6,527	13,70,104	Bharuch
Bhavnagar	9,981	24,69,264	Ehavnagar
Dahod	3,646	16,35,374	Dahod
Dangs	1,764	1,86,712	Ahwa
Gandhinagar	2,163	13,34,731	Candhinagar
Jamnagar	14,125	18,16,029	Jamnagar
Junagadh	8,846	24,48,427	Junagadh
Kheda	4,219	20,23,354	Nadiad
Kuchchh	45,652	15,26,321	8hu _l
Mahesana	4,384	18,37,696	Michsana
Narmada	2,755	5,14,083	Rajpipla
Navsan	2,209	12,29,250	Naman
Panchmahals	5,220	20,24,883	Codhara
Patan	5,730	11,81,941	Patan
Porbandar	2,298	5,36,854	Portundar
Rajkot ²	1,203	25,71,931	Rujkot
Sabarkantha	7,390	20,83,416	Himatnagar
Surat	7,657	49,96,391	Surat
Surendranagar	10,489	15,15,147	iurendranagar
Vadodara	7,549	36,39,775	Vadodara
Valsad	3,035	14,10,680	Valsad

VIIIages: 18,539; Towns: 242

Governor: Nawal Kishore Sharma

CM: Narendra Modi

Legislative Bodies: State Legislature: Unicameral - Seats: 182; Lok Sabha Seats: 26; Rajya Sabha Seats: 11

Main Political Parties: BJP, INC, JD...

Seat of High Court: Ahmedabad

Chief Languages: Gujarati

Major Religions: Hinduism, Islam

Main Towns: Ahmedabad International, Vadodara, Bhavnagar, Bhuj, Surat, Jamnagar, Kandla, Mehsana, Porbandar, Rajkot.

Geography: (a) Rivers: Sabarmati, Mahi, Narmada, and Tapti. Smaller rivers like Banas, Saraswati and Damanganga; (b) Mountains: Gir Range, Barda Hills, Girnar Hills. (c) National Parks: Gir NP-asiatic lions, Pirotan Marine National Park-known for corals and fish, Wild Ass Sanctuary-Rann of Kutr. Nal Sarovar Bird Santuary, Ratantal

Sloth Bear Sanctuary-Gujarat-MP border, Velavadhar NP, Vansda NP.(d) Beaches: Porbandar, Chorwad, Beyt Dwaraka, Somnath and Veraval, Mandvi near Delvada.

Economy: (a) Minerals: petroleum oil, natural gas; (b) Industries: Textiles, inorganic chemicals (caustic soda, soda ash), petrochemicals, drugs, oil refinery, pharmaceuticals, cement, electronic and electrical goods, machine tools, sugar, oil, etc.; (c) Agricultural Products: Baira, jowar, maize, rice, wheat,

tobacco, cotton, groundnut, isabgol, sugar-

cane, mangoes, bananas.

Transport & Communications: (a) Road

Length: 74075km.; (b) Main Railway Stations: Ahmedabad, Vadodara, Bharuch, Valsad, Navsar, Surat, Dahod, Nadiad, Bhavnagar, Bhuj, Jamnagar, Rajkot, Mehsana, Himatnagar, Palanpur; (c) Airports: Ahmedabad International, Vadodara, Bhavnagar, Bhuj, Surat, Jamnagar, Kandla, Keshod, Porbandar, Rajkot; (d) Port: Kandla.

Important Shrines: Modhera Sun temple-Mehsana, Hatheesing Jain Temple, Bhadreshwar-Jain pilgrimage, Shamlaji -famous Vaishnava temple, Jama Masjid, Rani Rupmati mosque, Akshardham temple-made of sandstone, Parsees Fire temple-Udwada.

Historic Places: Patan-remains of Solanki dynasty, Lothal and Dholavira-remains of Harrappan civilisation, Adlaj Vav (world's most famous elaborated well)-Gandhinagar, Rani ki Vav-built by Udayamati (queen of Bhimdeva 1 between 1022 and 1063, Uperkot Fort - built by Yadavas.

Shopping: Patola saris, bead-embroidered ghagras, cholis, torans, tondris, chakla, zari, chandrawas, Namdas-felt embroidered with wool, block printed textiles, clay painting, hand painted fabrics.

Education: (a) Schools: 44912; (b) Colleges: 545; (c) Universities: 28.

Culture: (a) Dances: Garba (Lasya Nrity(a) and , Dandia Ras (Ras Leela, folk), Tippani (women labourers); (b) Festivals: Janmastami,

- Dwarka and Dakor, Mahavir Jayanti-Palitana, International Kite Festival- Jan, Makar Sankranti, Navratri-Sep/Oct, Tarnetar fair (Aug-Sept), Madhavrai fair - Porbandar (Mar-April), Ambaji fair - Banaskanta dist, Shamalji fair, Dangi durbar - March, etc.

Haryana

Date of Formation: 1 Nov 1966 State created from part of Punjab

Area: 44,212 sq km Capital: Chandigarh

Neighbouring States: Punjab, Chandigarh, Himachal Pradesh, Uttaranchal, Uttar Pradesh, Delhi, Rajasthan.

Population: 21,144,564; Males: 11,363,953; Females: 9,780,611; Urban Population: 29%; (a) Population Density: 478; (b) Sex Ratio: 861

Literacy: 67.9%; Males: 78.5; Females: 55.7.

No. of Districts: 20

District	Area	Population	Head-
	(sq km)	(2001)	quarters
Ambala	1,574	10,13,660	Ambala
Bhrwani	4,778	14,24,554	Bhiwani
Faridabad	2,151	21,93,276	Faridabad
Fatehabad	2,520	8,06,158	Fatahabad
Gurgaon	2,766	16,57,669	Gurgaon
Hissar	3,983	15,36,417	Hissar
Jhajja r	1,834	8,87,392	Jhajjar
]:nd	2,702	11,89,725	Jind
Kaithal	2,317	9,45,631	Kaithal
Karnal	2,538	12,74,843	Karnal
Kurukshetra	1,530	8,28,120	Kurukshetra
Mahendragarh	1,859	8,12,022	Namaul
Panchkula	898	4,69,210	Panchkula
Panipat	1,268	9,67,338	Panipat
Rewari	1,582	7,64,727	Rewari
Rohtak	1,745	9,40,036	Rohtak
Sirsa	4,277	11,11,012	czniZ
Sonipat	2,122	12,78,830	Sonipat
Yamunanagar	1,768	9,82,369	Yamunanagar
Ssatyamevpuram	2003	-	Nooh

Villages: 6,955; Towns: 106

Governor: Dr. AR Kidwai

CM: Bhupinder Singh Hooda

Legislative Bodies: State Legislature:

Unicameral - Seats: 90; Lok Sabha Seats:10; Rajya Sabha Seats: 5

Main Political Parties: INC, Indian National Lok Dal, BJP, BSP, NCP.

Seat of High Court: Chandigarh

Chlef Languages: Hindi, Punjabi, Urdu Major Religions: Hinduism, Islam, Christianity.

Main Towns: Karnal, Rohtak, Panipat, Hisar, Yamunanagar, Kaithal, Gurgaon, Faridabad, Sirsa, Rewar, Bhiwani, Narnaul

Geography: (a) Rivers: Ghaggar, Yamuna; (b) Mountains: Lower Shiwalik Range, Rewari Upland, Delhi Range (c) Lakes: Sirajkhand, Badkhal, Chakarvaty. (d) National Park: Sultanpur Bird Sanctuary.

Economy: (a) Minerals: Limestone, slate, dolomite, china clay, graphite and quartz; (b) Industries: cement, sugar, paper, cotton, textiles, glassware, brassware, cycles, tractors (largest production in the country), motorcycles, timepieces, automobile tyres and tubes, sanitaryware, television sets, steel tubes, hand tools, cotton yarn, refrigerators, vanaspati, ghee and canvas shoes; (c) Agricultural Products: Rice, wheat, maize, bajra, cotton, sugarcane, barley potato, and pulses.

Transport & Communications: (a) Road Length: 30,468 km; NH 1 -Murthal to Delhi border to Karnal; NH 2 - Ballabgarh to UP border (b) Main Railway Stations: Ambala, Panipat, Kurukshetra and Jakhal. (Jagadhari railway workshop). (d) Airports: Pinjore, Karnal, Hissar, Bhiwani, Narnaul.

Tourist Destinations: Badkhal Lake-Faridabad, Panipat and Karnal-former site of fierce battles is now famous for furnishing textiles, Kurukshetra Tank, Yadavindra Gardens-Pinjore, Sultanpur Jheel (bird sanctuary).

Education: (a) Schools: 16964; (b) Colleges: 225; (c) Universities: 7

Employment: 5,982,000; Unemployment: 4,77%

Culture: (a) Festivals: Holi, Teej, Drwali, Ggugga Pir, Sanjhi, Karca Chauth-forwomen; Surajkund -famous for popular crafts melaheld in February, Janmashtami Fair-Bhiwani, Masani Fair-Gurgaon; (b) Crafts: Moorah making, khes, druggets, Punja durries.

Himachal Pradesh

Date of Formation: 25 Jan. 1971 State

Area: 55,673 sq km Capital: Shimla

Neighbouring States: J&K, Punjab, Haryana, Uttaranchal, China (country)

Population: 6,077,900; Males: 3,087,940; Females: 2,989,960; Urban Population: 9.79%; (a) Population Density: 109; (b) Sex Ratio: 970

Literacy: 76.5%; Males:85.3; Females: 67.4.

No. of Districts: 12

District	Area	Population	Head-
	(sq km)	(2001)	quarters
Bilaspur	1,167	3,40,735	B laspur
Chamba	6,528	4,60,499	Chamba
Hamirpur	1,118	4,12,009	Hamurpur
Kangra	5,739	13,38,536	Dharamsala
Kinnaur	6,401	83,950	Reckong Pea
Kulla	5,503	3,79,865	Kullu
Lahaul & Spiti	13,835	33,224	Krylong
Mandi	3,950	9,00,987	Manúi
Shimla	5,131	7,21,745	Shimla
Sirmaur	2,825	4,58,351	Nahan
Solan	1,936	4,99,350	Solan
Una	1,540	4,47,967	Una

Villages: 20,118; Towns: 57

Governor: Justice Vishnu Sadashiv Kokje

CM: Virbhadra Singh

Legislative Bodies: State Legislature. Unicameral - Seats: 68; Lok Sabha Seats: 4; Rajya Sabha Seats: 3

Main Political Parties: INC, BJP, Himachal Vikas Congress, Lok Jan Shakti Party, Loktantrik Morcha Himachal Pradesh.

Seat of High Court: Shimla

Chief Languages: Hir injabi Kinnauri, Pahari Major Religions: Hinduism, Buddhism, Islam.

Main Towns: Shimla, Mandi, Dharmashala, Kullu, Manali, Bilaspur, Chamba, Kyelang, Kalpa, Kangra

Geography: (a) Rivers: Ravi, Beas, Chenab, Satluj, Yamuna; (b) Mountains: Great Himalaya, Punjab Himalaya, Suket Hills, Shimla Hills, Shiwalik Range, Mussoorie Range, Nag Tibba Range; (c) Lake/ Valley: Kangra Valley, Mahasu Valley, Rampur Valley, Spiti Valley, Lahul Valley, Baspa Valley, Govind Sagar; (d) Pass: Rohtang.(e) Parks and Valleys: Kufri-Himalayan Nature Park, Sangla, (f) Lake: Renuka, Rewalsar - Mandi

Economy: (a) Minerals: Rock salt, slate, gypsum, limestone, barytes, dolomite, pyrites; (b) Industries: ΓΤ, Bio-technology, brewery, fruit processing, cement, electronics; (c) Agricultural Products: wheat, maize, rice, barley, vegetable, potato, ginger, soyabean, oilseed, pulses. Fruits: apple, pear, peach, plum, apricot, mango, litchi, guava, strawberry.

Transport & Communications: (a) Road Length: 21,935 km.NH-1235 kms.; (b) Railway Length-two narrow gauge lines (Pathankot to Jogindernagar and Kalka to Shimla) and the broad gauge line from Nangal to Talwara, is under construction; (c) Main Railway Stations: Pathankot, Jogin-der Nagar; (d) Airports: Bhuntar (Kullu Valley), Jubbarhatti (Shiml(a) and Gaggal (Kangra). Airstrip: Banikhet (being built).

Shrines: Lakshmi Devi-Manimahesh, Paonta Sahib Gurudwara, Jwalamukhi, Jakhu Hanuman temple-Shimla, Bhimkali temple-Sarahan, Bajreshwari Devi temple-Kangra.

Shopping: Pashmina shawis are very famous, rugs, namdas, gudma, are some of the native attractions. McLeod Ganj-Tibetan textiles, Dalhousie-Kulu shawis and Tibetan handicrafts, Lakkar Bazar,

Education: (a) Schools: 14909; (b) Colleges: 82; (c) Universities: 8

Employment: 2,371,000 (1999-2000)

Culture: (a) Dances: Nati; (b) Festivals: Dussehra of Kulu - begins on Vijay Dashmi; Shivratri of Mand (Feb/Mar); Minjar Fest in Chamba; Lavi Fair at Rampur; Renuka Fair (Aug/Sep); Lohri or Maghi, Lahual and Phulech-festival of flowers (c) Crafts: Pashmina and woollen shawls, namdas, gudma, thobis (floor covering made of goat hair), pullas (straw shoes).

Jammu & Kashmir

Date of Formation: 26 Oct 1947

Area: 2,22,236 sq km

Capital: Srinagar (Summer) Jammu (Winter)

Neighbouring States/countries: Himachal Pradesh, Punjab, (countries - Pakistan, Afghanistan, China.)

Population: 10,143,700; Males: 5,360,926; Females: 4,782,774; Urban Population: 24.88%; (a) Population Density: 100; (b) Sex Ratio: 900

Literacy:55.5%;Males:66.6; Females:43
No. of Districts:14

District	Area	Population	Head-
	(sq km)	(2001)	quarters
Anantnag	3,984	11,70,013	Anantnag
Badgam	1,371	6,32,338	Badgam
Baramula	4,588	11,66,722	Baramula
Doda	11,691	6,90,474	Doda
Jammu	3,097	15,71,911	Jammu [
Kargil	14,036	1,15,227	Kargil
Kathua	2,651	5,44,206	Kathua
Kupwara	2,379	6,40,013	Kupwara
Ladakh	82,665*	1,17,637	Leh
Pulwama	1,398	6,48,762	Pulwama
Poonch	1,674	3,71,561	Poonch
Rajauri	2,630	4,78,595	Rajauri
Stinagar	2,228	11,83,493	Srinagar
Udhampur	4,550	7,38,965	Udhampur

Includes 37,555 sq km under illegal occupation by China.

Villages: 6,652; Towns: 75

Governor: Lt Gen. (Retd.) SK Sinha

CM: Ghulam Nabi Azad

Legislative Bodies: State Legislature:

Bicameral Seats: Legislative Assembly:76 (originally 100 but 24 of which are illegally under POK); Legis Council: 36. Lok Sabha Seats: 6; Rajya Sabha Seats: 4

Main Political Parties: Jammu and Kashmir National Conference; INC, People's Democratic Party, J&K National Panthers Party, CPI-M, J&K Awami League, Democratic Movement, BSP, BJP...

Seat of High Court: Srinagar and lammu

Chlef Languages: Urdu (official), Kashmiri, Dogri, Pahari, Balti, Ladakhi, Purig, Punjabi, Gurji, Dadri

Major Religions: Islam, Hinduism, Buddhism

Main Towns: Srinagar, Jammu, Leh, Anantnag, Baramula, Pulwama, Punch, Doda, Udhampur

Geography: (a) Rivers: Chenab, Jhelum, Zanskar, Indus, Suru, Nubra and Shyok; (b) Mountains: (divided into 4 regions) Khandi Belt -Greater Himalayas, Great Karakoram, Trans-Himalaya; Siwalik range- Zaskar range, Kunlun; Kashmir Valley -Pirpanjal range; Tibetan tract- Ladakh range; (c) Lakes Wular, Achar, Dal, Pangong, Moriri, and Kar. (Mountain Lakes-Satsar, Vishansar, Kishansar, Gadsar, Gangabal); (d) Pass Zoji La pass; (e) Range Pir Panjal, Great Himalaya, Zanskar, Ladakh, Stok Ladakh is also called 'Little Tibet' and some-

times 'the last Shangri La.' This region is marked by Buddhist monastries (gompas), and forts. Hemis Gompa- Leh offers some tough mountain treks to Zanskar valley-Pangong Lake-Tso Moriri Lake. The highest point there is at Zoji La pass.

Economy: (a) Minerals: Mica, fire clay,

limestone, kaolin, bauxite; (b) Industries: Handicrafts, carpet, wood carving, shawl-making; (c) Agricultural Products: Paddy, maize, wheat, gram, bajra, jowar, barley, fruits like apple, and walnuts.

Transport & Communications: (a) Road Length 16,117 km.; (b) Main Railway Stations: Jammu; (Jammu-Udhampurrailwayline is under enstruction which will be extended to Srinagar and Baramulla) (c) Airports: Srinagar International, Jammu, Leh.

Shopping: Kashida embroidery, sonzi-fine needle work, and chikindozi-hookwork-jalakdozi-rafookari-Pashmina and kani shawfs, silver jewellery, etc.

silver jewellery, etc.

Education: (a) Schools: 16357; (b) Colleges: 91; (c) Universities: 5

Culture: (a) Dances: Ruf (women-romance and heroic), Kud (Dogramen), Hemis Gumpa; (b) Festivals: Assuj, Lohri, Sinh Sankranti, Bahu Mela in Jammu, Mela Losar, Mela Pat; Id-ulfitr, Id-ul-Zzuha, Id Milad-un-Nabi, Meraj Alam in Kashmir, Muharram, Hemis in Ladakh.

Jharkhand

Date of Formation: 15 Nov 2000 (State created from part of Bihar)

Area: 79,714 sq km

Capital: Ranchi

Neighbouring States:Bihar, UP, Chhattisgarh,Orissa, West Bengal. Population: 26,945,829; Males:

13,885,037; Females: 13,060,792; Urban Population: 22.25%; (a) Population Density:

338; (b) Sex Ratio: 941

Literacy: 53.6% (Males: 67.3; Females: 38.9)

No. of Districts: 18

District	Yea	Population	Head
	(sq km)	(2001)	dratters
Bolaro	2,861	14,54,416	Beiaro
Chatra	3,706	6 12,713	Chatra
Deoghar	2,479	9 33 113	Deoghar
Dhanbad	2,075	19,49,526	Dhanbad
Dumka	3,716	9,50 853*	Dhuni.
Carhwa	4,044	8,01,350	Carthia
Cindih	4,887	14,96,189	وششاه س
Codda	2,110	8,61,152	Cornel
Cumb	5,321	7,07,555*	Jack and
Hazanbagh	5,965	18,36,065	Francis College
Jamtara	1,802	5,44,850*	*****
kodarma	1,311	3,94,703	- 14 mag
Latebar	3660	4.67,027	

	1,491	2,88,886	Lohardaga
Lohardaga			_
Pakaur	1,806	5,64,253	Pakaus
Palamu	4,015	11,82,770*	Daltongan
Paschimi Singhbhu	ım5,290	10,80,780*	Chabasa
Purbi Singhbhum	3,553	16,13,088	Jamshedpui
Ranchi	7,574	22,14,088	Ranch
Sahebganj	1,706	7,36,835	Sahibgan
Seraikela	2,725	7,07,175*	Seraikela
Simdega	3756	4,46,421*	Simdega
#Khunti district	is under	considerati	iio.* Popula
tion refers to 19	91 cen:	sus.	

Villages: 32,615; Towns: 152 Governor: Syed Sibtey Razi

CM: Madhu Koda

Legislative Bodies: State Legislature: Unicameral - Seats: 81; Lok Sabha Seats: 14; Rajya Sabha Seats: 6

Main Political Parties: BJP, INC, NCP, JMM, RJD, JD-United, All India Forward Block, CPI-ML, AJharkhand Students Union, Jharkhand Party...

Seat of High Court: Ranchi

Chlef Languages: Hindi, Urdu, Maithli, Bhojpuri

Major Religions: Hinduism, Islam, Buddhism

Main Towns: Ranchi, Jamshedpur, Dhanbad, Daltenganj, Deogarh, Dumka, Hazaribagh, Bokaro, Chaibasa, Chatra, Gumla, Garwa, Giridih

Geography: (a) Rivers: Sankh, South Koel, Damodar, Subarnarekha, Barakat; (b) Mountains: Chotanagpur Plateau, Hazaribagh Plateau, Rajmahal Hills, Parasnath (1366m); (c) Reservoir: Tilaiya, Konar, Govind Bballabh Pant Sagar (d) National Park: Palamau NP, Hazaribagh NP.

Economy: [harkhand's economy is sustained by mining and heavy industry. It is India's second most important source of coal, mining 26 per cent of the total. In minerals, [harkhand is probably India's richest state. [harkhand has rich reserves of iron ore and coal and several industries. The two major steel plants of India are located in [harkhand: at Jamshedpur and Bokaro. (a) Minerals: iron ore and coal; (b) Industries: Steel, mining,

heavy industries; (c) Agricultural Products: Agriculture is poorly developed. Irrigation is negligible. Drought, therefore, is a periodic threat.

Transport & Communications: (a) Road Length: 4,311km, including 1,500km NH and 2,711km SH; (b) Main Railway Stations: Ranchi, Bokaro, Dhanbad, Jamshedpur, Muri,

Deogarh; (c) Airports: Ranchi, Jamshedpur.

Ed. cation: (a) Schools: 22821; (b) Colleges: 145; (c) Universities: 7

Culture: (a) Dances: Chhau; (b) Festivals: Chhath, Diwali, Id, Buddha Purnima, Durga Puja. Tribal Festivals: Sarhul, Bandna, SSohraj and Dasai.

Karnataka

Date of Formation: 15 Aug 1947 Mysore state (1950-56: part (B); 1 Nov 1973 Renamed Karnataka

Area:1,91,791 sq km Capital: Bangalore

Neighbouring States: Kerala, Goa, Maharashtra, AP, Tamil Nadu

Population: 52,850,562; Males: 26,898,918; Females: 25,951,644; (a) Population Density: 276; (b) Sex Ratio: 964

Literacy: 66.6%; Males: 76.1; Females: 56.9.

No. of Districts: 27

District	Area	Population	Head-
	(sq km)	(2001)	quarters
Bagikot	6,594	16,52,232	Bagalkot
Bangalore	2,190	65,23,110	Bangalore
Bangalore Rural	5,815	18,77,416	Bangalore
Belgaum	13,415	42,07,264	Belgaum
Bellary	8,419	20,25,242	Bellary
Bidar	5,448	15,01,374	Bidar
Bijapur	10,475	18,08,863	Bijapur
Chamarajanagar	5,685	9,64,275	Ch.nagar
Chickmagalur	7,201	11,39,104	Chickmagalur
Chitradurga	8,388	15,10,227	Chitradurga
Dakshina Kannad	da 4,843	18,96,403	Mangalore
Davangere	6,018	17,89,693	Davanagere
Dharwad	4,230	16,03,794	Dharwad
Gadag	4,657	9,71,955	Gadag
Gulbarga	16,224	31,24,858	Culbarga

Main Towns: Bidar, Gulbarga, Bijapur, Belgaum, Dharwad, Raichur, Bellary, Shimoga, Mangalore, Madikeri, Mysore, Bangalore, Kolar, Tumkur, Hassan, Devan-gere. Geography: (a) Rivers: Krishna, Tungabhadra, Cauvery, Kabani; (b) Mountains: Western Ghats, Chitradurga Hills, Tumkur-Closepet Hills, Mysore Plateau, Biligiri Rangan Hills, Nandi Hills, Gokak Hills, Badami Hills. (c) National Park: Bandipur Wildlife Sanctuary Economy: (a) Minerals: Gold silver, iron ore, copper, chromite, magnesite, corundum, garnet, limestone; (b) Industries: Aircraft, electronics, software, telecom equipment, alloy steel, machine tools, watches, porcelain, au-

tomobiles, etc.; (c) Agricultural Products: Rice, jowar,bajra, ragi, maize, groundnut, sunflower, mulberry, coconut, Potato, grapes, watermelon, etc.

Transport & Communications: (a) Road Length: 1,17,972 km.; NH-3728 km (b) Rail-

Kerala Date of Formation: 1st Nov. 1956 Area: 38,863 sq km Capital: Thiruvananthapuram Karnataka, Mahe, Lakshdweep Is. Population: 31,841,374; Males: 15,468,614; Females: 16,372,760; Urban Population: 25.97%; (a) Population Density.

Neighbouring States: Tamil Nadu,

Karaga, Ugadi (Kannada New Year), Diwali,

819; (b) Sex Ratio: 1058 Literacy: 90.9%; Males: 94 2; Females:

87.7

No of Districts: 14

District	Area (12 km)	Population (2001)	ateads actees
Alappatha	1,414	1,764,603	Alas politica
Ernaku'am	2 950	2° 90	1.528
لللبال	4,476	15	في عنه الله الله الله الله الله الله الله ال
Kannut	2,740	w _n	Late of

Karwar

Villages: 29,406; Towns: 270

cameral; Legislative Assembly- 224, Legislative Council- 75; Lok Sabha Seats: 28; Rajya

Main Political Parties: BIP, INC, ID (S), JD (U), CPI-M, Kannada Nadu Paksha, Kannada

Seat of High Court: Bangalore

Chief Languages: Kannada Major Religions: Hindu, Islam, Chris-

6,269 26,24,911 5,559 16,48,212 Raichur 8,465 16,39,595 Shimoga 10.598 25,79,516 Turnkur 3,598 11,09,494

17,21,319

14,37,860

25,23,406

11,93,496

17,61,718

5,45,322

Hassan

Haveri

Kodagu

Kolar

Koppal

Mandya

Mysore

Raichur

Shimoga

Tumkur

Uttara Kannada

Sabha Seats: 12

tianity

Chalarali Vatal Paksha

Udupi

6.814

4,851

4,102

8,223

8,458

4,961

10,291

Governor: T.N. Chaturvedi

Legislative Bodies: State Legislature: Bi-

CM: H.D. Kumaraswamy

13,53,299

Koppal Mandya Mysore

Hassan

Haveri

Kolar

Madiken

galore, Mysore, Tumkur, Hosur, Hassan, Mandya, Bellary, Hu-bli, Bijapur, Gulbarga, Belgaum, Dharwad; (d) Airports: Bangalore.

Belgaum, Mangalore, Hubli and Devenhalli (2007); (e) Port: New Mangalore port is the

main all-weather seaport.

Adventure Sports: Ramanagaram-rock climbing-50 km from Bangalore, Honnemardu

on Sharavathy-coracle rafting, canoeing and

wind surfing, Cauvery Fishing Camp-82 km

from Mysore for anglers, Kudremukh and

Kemman Gundi -trekking. Education: (a) Schools: 59485; (b) Col-

leges: 1279; (c) Universities: 20

Employment (99-00): 20,333,000; Un-

way Length: 3100km. The Konkan Railssay.

the new rail link between. Mumbai and

Mangalore was dedicated to the nation on

May 1, 1998; (c) Main Railway: Stations Ban-

Employment ('99-00): 4.57%. Culture: Festivals: Mysore

Kar Hunnive, Navaratri, Yellu Amavasya, Ramzan.

Villages: 1	.364; T	owns: 159)
Wyanad	2,132	751,007	Kalpetta
Thrissur	3,032	2,434,998	Thrissur
anthapuram	2,192	2,237,347	anthapuram
Thiruvan-			Thiruvan-
Pathanamthitta	2, 637	1,110,218 Pa	athanamthitta
Palakkad	4,480	2,363,558	Palakkad
Malappuram	3,550	3,297,512	Malappuram
Kozhikode	2,345	2,297,746	Kozhikode
Kottayam	2,208	1,795,670	Kottayam
Kollam	2,491	2,137,761	Kollam
rusurgou	.,	.,,.	

1.085.941

Kasargod

1 992

Governor: R.L. Bhatia **CM:** V.S. Achutanandan

Kasargod

Legislative Bodies: State Legislature:

Unicameral - Seats: 140; Lok Sabha Seats: 20; Rajya Sabha Seats: 9

Main Political Parties: INC, CPI-M, Muslim League Kerala State Committee, Kerala Congress (M), CPI, ID(S), Revolutionary So-

Congress (B), Kerala Congress (J), Democratic Indira Congress, NCP,CMP Seat of High Court: Kochi Chief Languages: Malayalam Major Religions: Hinduism, Islam, Chris-

cialist Party of Kerala, Kerala Congress, Kerala

tianity

Main Towns: Thiruvananthapuram,
Kochi, Kozhokode, Trissur, Kannur, Kottayam,
Kollam, Allapuzha, Palakkad, Malapuram,
Pathanamthitta

Geography: (a) Rivers: Periyar-244km, Bharatapuzha, also called Nila-209 km; Pamba -176km, Chaliyar-169, Kadaundi & Chalakkudy-130, Achenkovil-128, Kalada & Muvatupuzha-121km.; (Total 44 rivers-outof which 41 are west flowing and 3 eastward -Pambar, Bhawani and Kabani) (b) Mountains: Highest - Anamala (8841 ft), Karinkulam (8455ft), Mukutti (8330ft), Devimala (8273 ft) Highest Peak- Anamudi 2695 msl. (c) Lakes: Vembanad (205 sq km), Kayamakulam (51 sq km), Ashtamudi (50), Anjuthengu (20sq km). Fresh water lake- Shastamcota-3.7 sq km, Vellayni, and Pookat (d) Beaches: Kovalam, Varkala, Vizhinjam, Shankumukham

-Trivandrum, Muzhapilan-gad and Payyam-

Kumarakom-Kottayam. (g) Wildlife: Eravikulam National Park-known for Nilgiri Tahr, Periyar National Park, Param-bikulam National Park, Silent Valley, Peppara National Park. Economy: (a) Minerals: Ilmenite, Rutile, Kaolin, Limestone; (b) Industries: Colr and

cashew are 2 large industries. Handloom and

bamboo-based industries are well-developed.

balam-Kannur, Kappad-Kozhikode. (e) Hill

Stations: Munnar, Nelliyampathay. (f) Back-

waters: Alapuzha, Kollam, Veli, Kochi,

Kerala accounts for about 1/3 of India's marine exports. Software development and export is picking up; (c) Agricultural Products: The state has developed commercial agriculture more than food crops. Consequently, the state is short of foodgrains. Kerala accounts for 92% of India's rubber, 70% of coconut, 60% of tapioca and almost 100% of lemon grass oil. Kerala is the single largest producer of a number of other crops like banana and ginger, besides tea and coffee in abundance.

Main Irrigation Projects: Malampuzha, Chalakkudy, Peechi, Pamba, Periyar, Chittoorpuzha, Kuttiyadi, Neyyar, Chimmini Main Power Projects: Pallivasal Hy., Chenkulam Hy, Peringalkut Hy., Neriyamangalam Hy., Paniyar Hy., Sabarigiri Hy., Sholayar Hy. Brahmapuram Diesel, Kanjikode Wind farm, Kozhikode Diesel, Kayamakulam Thermal Power plant

farm, Kozhikode Diesel, Kayamakulam Thermal Power plant.

Transport & Communications: (a)
RoadLength: 2,19,805km; (b) Railway Length:
1,148km; (c) Main Railway Stations:
Thiruvananthapuram, Kollam, Chenganur,
Thiruvalla, Kottayam, Alapuzha, Ernakulam,
Trissur, Palakkad, Kozhicode, Kannur,
Kasargod; (d) Airports: Thiruvananthapuram,
Nedumbassery (Kochi-India's first private
airport, was opened in June, '99), and
Karipur. Port: Kochi.

Waterfalls: Athirapally, Vazhachal, Palaruvi Famous Shrines: Jewish Synagogue

Ehind

Employment ('99-00):8,902,000; Un-
Employment ('99-00):20.97%.
(a) Schools: 12700; (b) Colleges: 313; (c)
Universities: 10
Culture: (a) Dances: Kathakali, Mohini-
attam, Theyyam, Thullal, Margamkalli, Opp-
ana; (b) Festivals: Onam, Vishu, Ramzan, Chri-
stmas, Aluva Shivratri.
Madhya Pradesh
Madhya Pradesh Date of Formation: 1 Nov. 1956
•
Date of Formation: 1 Nov. 1956
Date of Formation: 1 Nov. 1956 Area: 3,08,144 sq km
Date of Formation: 1 Nov. 1956 Area: 3,08,144 sq km Capital: Bhopal
Date of Formation: 1 Nov. 1956 Area: 3,08,144 sq km Capital: Bhopal Neighbouring States: Maharashtra, Gujarat, Rajasthan, UP, Chhattisgarh
Date of Formation: 1 Nov. 1956 Area: 3,08,144 sq km Capital: Bhopal Neighbouring States: Maharashtra,
Date of Formation: 1 Nov. 1956 Area: 3,08,144 sq km Capital: Bhopal Neighbouring States: Maharashtra, Gujarat, Rajasthan, UP, Chhattisgarh Population: 60,348,023; Males:
Date of Formation: 1 Nov. 1956 Area: 3,08,144 sq km Capital: Bhopal Neighbouring States: Maharashtra, Gujarat, Rajasthan, UP, Chhattisgarh Population: 60,348,023; Males: 31,443,652; Females: 28,904,371; Urban
Date of Formation: 1 Nov. 1956 Area: 3,08,144 sq km Capital: Bhopal Neighbouring States: Maharashtra, Gujarat, Rajasthan, UP, Chhattisgarh Population: 60,348,023; Males: 31,443,652; Females: 28,904,371; Urban Population: 26.67%; (a) Population Density: 196; (b) Sex Ratio: 920
Date of Formation: 1 Nov. 1956 Area: 3,08,144 sq km Capital: Bhopal Neighbouring States: Maharashtra, Gujarat, Rajasthan, UP, Chhattisgarh Population: 60,348,023; Males: 31,443,652; Females: 28,904,371; Urban Population: 26.67%; (a) Population Density:

Population

14,45,760

10,81,039

13 94 421

(2001)

Area (sq km)

9,229

5,432

10.043

Head-

quarters

Balaghat

Bankani

Setul

No. of Districts: 45

District

Balaghat

Bankani

Ectui

(Mattancherry, Kochi)-St Francis Church -

Trivandrum, Ayyappa temple-Sabarimala.

Guruvayoor (Lord Krishna shrine)-Dwarka of

the south, Attukal temple- Trivandrum,

Methala mosque, Malik Dinar Mosque, St

Thomas Memorial Church-Kodungalloor, St.

Thomas Church- Malayatoor, Mannarasala

temple-Harippad, Parumala Church, and

Kalady (the birthplace of Sri San-karacharya.

pal town (Kottayam-1989), and district

(Ernakulam-1990) in India are in Kerala.

In 1991, Kerala became the first fully lit-

erate state in India. Literacy among adults:

89.9%.

Education: *The first fully literate munici-

Padma-nabhaswamy temple-

Bhind

O-111-0	7,733	17,20,931	prand.
Bhopal	2,772	18,36,784	Ehopal
Chhatarpur	8,637	14,74,633	Chhatarpur
Chhindwara	11,815	18,48,882	Chhadwara
Damoh	7,306	10,81,909	Damch
Datia	2,038	6,27,818	Data
Dewas	7,020	13,06,617	Devas
Shaar	8,153	17,40,577	Dhaar
Dindori	7,427	5,79,312	Dindort
ast Nimar	10,779	17,08,170	khandwa
una .	11,065	16,65,503	Guna
Swalior	5,214	16,29,881	Chalor
ndore	3,898	25,85,321	Indore
larda	3,339	4,74,174	Harda
loshangabad	6,698		Hoshangabad
abalpur	5,210	21,67,469	laba'pur
habua	6,782	13,96,677	inabus Ludeni
(atni	4,947		•
dandla	-	10,63,689	Katni Kanni
viandia Viandsaur	13,269	8,93,908	Manda
	<i>9,7</i> 91 11,594	11,83,369	Mandsaur
forena		15,87,264	Morena
larsinghpur leemuch	5,133 4,267	9,57,399 7,25,457	Narsinghpur Neemuch
anna	7,135	8,54,235	Panna
	8,466	11,20,159	Raiden
laisen	6,154	12,53,246	Raigarh
ajgarh	4,861	12,14,536	Ruttam
atlam	•	19,72,333	Rema
ewa	6,134 10,252	20,21,783	
agar	7,502	19,68,648	Sagar Satna
Satna	6,578	10,78,769	Schore
iehore	8,758	11,65,893	Sconi
ieoni	-	15,72,748	kobeled2
ihahdol	14,028		Sharapur
hajapur	6,196	12,90,230	
heopur	6,585	5,59,715	Sheopur
Shrypun	10,278	14,40,666	Shypun 141-2
idhi	10,256	18,30,160	Skithi
ikamgarh	5,048	12,03,533	Tilamgarh
Jijain	6,091	17,09,885	ULAN
Jmaria	4,026	5,15,851	Umana
ridisha	2,742	12,14,759	Viditha
Yest Nimar	13,450	15,29,954	Water W
Villages: 5 Governor CM: Shivra	: Balram ij Singh (Jakhar Chauhan	
Legislativ			
Unicameral -	Seats: 23	0: Lok Sa	bha Seats:

4.459

14,26,951

Unicameral -Seats: 230; Lok Sabha Seats: 29; Rajya Sabha Seats: 11

Main Political Parties: BJP, INC, Samajwadi Party, BSP, CPI-M, NCP, ID-U.

Seat of High Court: Jabaipur and benches

at Gwalior and Indore

Chlef Languages: Hindi

Major Religions: Hinduism, Islam, Buddhism

Main Towns: Bhopal, Gwalior, Sagar, Rewa, Jabalpur, Ujjain, Bhind, Ratlam, Seoni, Shajapur, Sagar, Guna, Itarsi, Shivpuri, Morena, Guna, Chindwara, Katni, Mandla, Umaria, Shahdol, Vidhisha.

Geography: (a) Rivers: Narmada, Chambal, Sindh, Betwa, Ken, Son, Tapi; (b) Mountains: Vindhya Range, Satpura Range, Malwa Plateau, Kaimur Hills, Maikala Range, Mahadeo Hills. (c) National Park / Sanctuary: Kanha, Bandhavgarh, Madhav, Karera Bird Sanctuary (Great Indian Bustard), Indravati tiger reserve; Dhuandhar Fall (Bhedaghat) and Marble rock - Jabalpur;

Economy: (a) Minerals: diamond, dolomite, limestone, bauxite, iron-ore, copper, coal, lead, tin, rock phosphate, traditional handicraft and handloom; (b) Industries: Heavy electricals, Govt. Mint, Security Paper mill, sugar mills, refractories, textile machinery, steel casting, electronics, automobiles, optical fibre, newsprint, rerolling, industrial gases, synthetics, drugs, engineering tools, chemical fertilisers, solvent extraction; (c) Agricultural Products: Jowar, wheat, rice, gram, oilseeds, pulses, soyabean, cotton, sugarcane.

Transport & Communications: (a) Road Length: 67,600 km. NH 3700 km, SH 7,300km; (b) Main Railway Stations: Bhopal, Bina, Gwalior, Indore, Itarsi, Jabalpur, Katani, Ratlam and Ujjain; (c) Airports: Bhopal, Gwalior, Indore, Khajuraho

Famous Temple towns: Khajuraho, Maheshwar, Omkareshwar, Ujjain, Chitrakoot Orchha, Amarkantak, Bhojpur, Udaypur.

Archeological SitesS: Bhimbedka, Satna, Sanchi stupas (Buddhist), Vidisha, Mandsaur, Education: *(a) Schools: 89963; (b) Col-

leges: 592; (c) Universities: 17

Employment ('99-00): 28,725,000; Unemployment ('99-00): 4.45%.

Culture: (a) Dances: Gaur - bison hunt dance; (b) Festivals: Tan Sen Music FestivalGwalior; Ustad Allauddín Festival -Maihar; Kalidas Samaroh- Ujjaín; Festival of Dances-Khaiuraho.

Bhagoriya - Jhabua(tribal), Holi, Sravan Somvar, Diwali, Id, Dussehra, Shivratri-Khajuraho, Bhojpur, Pachmarhi, Ujjain; Ramnavami - Chitrakoot, Orcha, Malwa, Pachmarhi.

Maharashtra

Date of Formation: The state of Bombay was bifurcated into Maharashtra and Gujarat on May 1,1960, Maharashtra retaining the old capital Bombay.

Area: 3,07,713 sq km Capital: Mumbai

Neighbouring States: Gujarat, Madhya Pradesh, Andhra Pradesh, Karnataka, Goa, Dadra and Nagar Haveli, Chhattisgarh

Population: 96,878,627; Males: 50,400,596; Females: 46,478,031; Urban **Population:** 42.40%; (a) Population Density: 315; (b) Sex Ratio: 922

Literacy: 76.9%; Males:86.0; Females: 67.0.

No. of Districts: 35

District	Area	Population	Head-
	(sq km)	(2001)	quarters
Ahmednagar	17,034	40,88,077	Ahmednagar
Akola	5,431	16,29,305	Akola
Amaravati	12,235	26,06,063	Amaravati
Aurangabad	10,106	29,20,548	Aurangabad
Beed	10,692	21,59,841	Beed
Bhandara	3,890	11,35,835	Bhandara
Buldana	9,680	22,26,328	Buldana
Chandrapur	11,417	20,77,909	Chandrapur
Dhule	8,061	17,08,993	Dhule
Gadchiroli	14,477	9,69,960	Gadchiroli
Gondia	5,431	12,00,151	Condia
Mumbai City	157	33,26,837	Mumbai City
Hingoli	4,526	9,86,717	Hingoli
Jalgaon	11,757	36,79,936	Jalgaon
Jalna	7,715	16,12,357	jaina
Kolhapur	7,692	35,15,413	Kolhapur
Latur	7,166	20,78,237	Latur
Mumbai (Sub.)	446	85,87,561 N	fumbai (Sub.)
Nagpur	9,810	40,51,444	Nagpur
Nanded	10,545	28,68,158	Nanded
Nandurbar	5,035	13,09,135	Nandurbar

Washim	5,150	10,19,725	Washim
Yavatmal	13,594	24,60,482	Yavatmal
Villag	jes: 43,711;	Towns: 378	3
Gove	rnor: S.M. K	rishna	
CM: V	ilasrao Deshi	nukh	
Legis	lative Bodie	s: State Leg	islature: Bi-
cameral -	- Seats: Legisl	ative Counc	il: 78; Leg-
islative A	ssembly: 288	; Lok Sabha	Seats: 48;
Rajya Sal	oha Seats: 19		
Main	Political Pa	irties: NCP,	INC, Shiv
Sena, BJP,	CPI-M, Jan Su	rajya Sharti, I	Peasant and
Workers (Party of India,	Akhil Bharati	ya Sena,
Seat	of High Cou	i rt: Mumba	i (benches
at Nagpo	ır, Aurangab	ad and Pana	ıji)
Chief	Languages	: Marathi	
Majo	r Religions:	Hinduism, Is	slam, Parsi,
Christian	ity, Jainism		
Maln	Towns: Mu	mbai, Pun	e, Nagpur,

Nashik, Nanded, Nandubar, Akola, Auranga-

bad, Bid, Gondia, Jalgaon, Jalna, Kolhapur,

Kudal, Parbhani, Solapur, Satara, Sangli, Wardha.

Penganga, Manjra, Bhima, Varna, Panjhra,

Wardha, Wainganga, Purna, Dudhana, Pravara,

Mula, Ghod, Sina, Tirna; (b) Mountains: Ajanta Range, Harishchandra Range, Balaghat Range,

Satmala Hills, Gawligarh Hills, Mahabaleshwar, Kalsunai; (c) Lakes: Beale, Tansa, Andhra,

Mulshi, Koyna Reservoir. (d) National Park:

Geography: (a) Rivers: Godavari,

15,539

7,550

6,511

15,637

7,162

8,196

8,578

10,475

14,886

9,563

6,311

5,222

48,87,923

14,72,256

14,91,109

72,24,224

22,05,972

16,96,482

25,81,835

27,96,906

8,61,672

38,55,383

81,28,833

12,30,640

Nashik

Parbhani

Pune

Raigad

Sangli

Satara

Solapur

Wardha

Thane

Ratnagiri

Sindhudurg

Osmanabad

Nashik

Osmanabad

Parbhani

Pune

Raigad

Sangli

Satara

Solapur

Wardha

Thane

Ratnagiri

Sindhudura

Nawegaon, Pench Taroba.

Sanctuaries: Nagzira, Tousa, Yawal, Doe,
Devlagaon, Devlagaon.

Economy: (a) Minerals: Coal, Iron ore, Manganese, Chromite, Bauxite, Oil & Natural Gas; (b) Industries: Major industries are

trical and non-electrical machinery and petroleum and allied products, pharmaceuticals, engineering goods, machine tools, steel and iron castings and plasticware. Santa Cruz Electronics Export Processing Zone (SEEPZ), is a free trade zone for cent per cent export. India's first gold refinery is at Shirpur. The development of offshore oil fields at Mumbai High and the nearby Bassein North Oil Fields have contributed greatly to the industrial development of the state; (c) Agricultural Products: Main food crops: wheat, rice, jowar, bajra and pulses. Cash crops: cotton, sugarcane, groundnut and tobacco. Alphonso mangoes, Thomson seedless grapes, Cavendish bananas and soft seeded pomegranates are the state's produce.

chemicals and allied products, textiles, elec-

Transport & Communications: (a) Road Length: 2.66 lakh km. consisting of 3,710 km. of national highways, 33,405 km. of state highways, 47,927 km. of major district roads, and 93,652 km of village roads (as on March 2002); (b) Railway Length: 5,459 km. of railway routes of which about 77.9% is broad quage, 83% meter guage and 13.8% is narrow quage; (c) Main Railway Stations: Bombay is now Mumbai and Victoria Terminus (VT) station Chhatrapati Shivaji Raihvay Terminus Bandra, Thane, Vasai, Khurd, Pune, Sciapur. Satara, Jalgaon, Bhusaval, Nagpur, Kholapur, Kudal; (d) Airports: Mumbai. There are four airports under the control of International Airport Authority or Airport Authority of India and 3 under the Ministry of Defence, (e) Ports: Mumbai. Education: *(a) Schools 83552; (b) Col-

leges:1733; c) Universities 52

Employment ('99-00) 34,979,000; Unemployment ('99-00) 7 16%

Famous Forts Pratapgarh, Daulataise Shivneri, Vijaydurg, Sindhudurg, All Saljanjira

Culture: (a) Dances: Tamarana (folk dram (a), (b) Festivals:

(c) Craft: Paithani, Chandrakala, Pasodi, Ghongodi, Dharwadi and brocade sarees, silk-bordered dhoties, himru and bidri work, terracotta pottery, copper and zinc vessels, etc.

Manipur

Date of Formation: 21 Jan 1972 State; 15 Oct., 1949 State (from 1950: Part C); 1 Nov 1956 Union Territory.

Area: 22,327 sq km Capital: Imphal

Neighbouring States: Mizoram, Assam, Nagaland, Myanmar (country)

Population:2,166,788; Males:1,095,634; Females:1,071,154; Urban Population: 23.88%; (a) Population Density: 111; (b) Sex Ratio: 978

Literacy:70.5%; Males: 80.3; Females: 60.5. **No. of Districts:** 9

District	Area (sq km)	Population (2001)	Head- quarters
			
Bishnupur	496	2,05,907	Bishnupur
Chandel	3,313	1,22,714	Chandel
Churachandpur	4,570	2,28,707	
Churachandpur			
Imphal East	709	3,93,780	Porompat
Imphal West	519	4,39,532	Lamphelpat
Senapati	3,271	3,79,214	Senapati
Tamenglong	4,391	1,11,493	Tamenglong
Thoubal	514	3,66,341	Thoubal
Ukhrul	4,544	1,40,946	Ukhrul

Villages: 2,391; Towns: 33

Governor: Dr. Shivinder Singh Sidhu

CM: Okram Ibobi Singh

Legislative Bodies: State Legislature: Unicameral- Seats: 60; Lok Sabha Seats: 2; Rajya Sabha Seats: 1

Main Political Parties: INC, Federal Party of Manipur, Manipur State Congress Party, CPI, BJP, NCP, Samata Party, Manipur People's Party, Manipur National Conference, Democratic Revolutionary Peoples Party...

Seat of High Court: A permanent bench of the Guwahati High Court, Imphal Bench (functional since 14-3-1992)

Chief Languages: Manipuri

Major Religions: Hinduism, Christianity.

Main Towns: Imphal, Thoubal,

Churachandpur, Ukhrul, Bishnupur, Senapati, Tamenglong, Chandel.

Geography: (a) Rivers: Barak, Manipur; (b) Mountains: West Manipur Hills, Laimatol Range, Letha Range, East Manipur Hills; (d) Lake: Loktak.

Economy: (a) Minerals: Limestone; (b) Industries: Handloom weaving, cottage industries like sericulture, bamboo and cane articles, rice mills, edible oil crushing and leather goods; (c) Agricultural Products: Paddy, wheat, maize.

Transport & Communications: (a) Road Length: 7,599 km NH. 53, 39; (b) Main Railway Stations: Jiribam; (d) Airports: Imphal

Education: (a) Schools: 4033; (b) Colleges: 63; (c) Universities: 2

Culture: Manipuri dancing is one of the classical dances of India. Male dancers perform acrobatics and the graceful movements of female dancers are delightful.

(a) Dances: Manipuri; (b) Festivals: Dol jatra, Lai Haraoba, Rasa Leela, Chei-raoba, Ningol Chakouba, Imoinu Irtapa, Gaan-Nagai, Lui-Nagai-ni, Yaoshang (Holi), Mera Houcho-ngba, Kut, Id-ul-Fitr, Christmas.

(c) The favourite sport is polo and Manipur claims to have invented it. Polo is also popular in few other places in Asia.

Meghalaya

Date of Formation: 2 Apr 1970 State within Assam; 21 Jan 1972 Separate state

Area: 22,429 sq km

Capital: Shillong

Neighbouring States: Assam, Bangladesh (country)

Population:2,318,822; Males: 1,176,087; Females: 1,142,735; Urban Population: 19.63%; (a) Population Density: 103; (b) Sex Ratio: 975

Literacy: 62.6%; Males: 65.4; Females: 59.6.

Population

Head-

Area

No. of Districts: 7

District

	(sq km)	(2001)	quarters
East Garo Hills	2,603	2,47,555	Williamnagar
East Khasi Hills	2,748	6,60,994	Shillong
Jaintia Hills	3,819	2,95,692	Jowai
Ri-Bhoi *	2,448	1,92,795	Nongpoh
South Garo Hills	1,887	99,105	Baghmara
West Garo Hills	3,677	5,15,813	Tura
West Khasi Hills	5,247	2,94,115	Nongstoin

^{*} created in June 1992.

Villages: 6,026; Towns: 16
Governor: M.M. Jacob

CM: J.D. Rymbai

Nokrek Peak.

Unicameral -Seats: 60; Lok Sabha Seats: 2; Rajya Sabha Seats: 1

Legislative Bodies: State Legislature:

Main Political Parties: INC, NCP, United Democratic Party, Meghalaya Demo-

cratic Party, Khun, Hyneutrip National Awakening Movement...

Seat of High Court: Guwahati. A High

cratic Party, BJP, Hill State People's Demo-

Court Bench is located at Shillong.

Chief Languages: Khasi, Garo and English. **Major Religions:** Hinduism, Christianity

Main Towns: Shillong, Tura, Williamnagar, Nongpoh, Nongstoin, Jowai, Baghmara, Mawphlang

Geography: (a) Rivers: Simsang, Manda, Darming, Ringge, Gamol, Bugi, (Khri, Krishnai, Kapili, Saressvari, Bhogai); (b) Mountains: Garo Hills, Khasi Hills, Jaintia Hills;

Economy: (a) Minerals: Sillimanite, Coal, limestone, dolomite, fireclay, felspar, quartz, glass sand, sandstone; (b) Industries: Cement:Industrial units are fast coming up. There is a public sector cement factory at Cherrapuniee. Meghalaya's hydro-electric

and thermal power potential has been esti-

mated at about 2500 and 1000 megawatts

respectively; (c) Agricultural Products: Rice

tezpata, sugarcane, oilseeds, cotton, jute, mesta, arecanut besides fruits like pineapple, orange, and bananas are the important products. 'Khasi Mandarin' oranges are famous. Area under forest is 950,000 hectares.

and Maize are the major food crops. Potato.

Transport & Communications: (a) Road Length: 7,860 km of both surfaced and unsurfaced roads; (b) Railway: None; (c) Airports: Umroi, 35km from Shillong

Some of the important Places of interest are: Ward's Lake, Lady Hydary Park, Bishop Beadon Falls, Elephant Falls, Uniam Lake, Kyllang Rock, Nohsngithiang falls at

Mawsmai, and the monoliths of Nartiang.

Education: (a) Schools: 7531; (b) Colleges: 46; (c) Universities: 1

Culture: (a) Dances: Nongkrem at Smit village; Laho (Jaintias); (b) Festivals: Shad Suk Mynsiem - April 2nd week (Khasis); Wangala Oct-Nov (Garos); Behdiengkhlam at Jowai - July (Jaintias).

Mizoram

Date of Formation: 20 Feb 1987

Area: 21,081 sq km Capital: Aizawi

Nelghbouring States: Tripura, Assam, Manipur, Myanmar (country)

Population: 888,573; Males: 459,109; Females: 429,464; Urban Population: 49,50%; (a) Population Density: 42; (b) Sex Ratio: 938

Literacy: 88.8%; Males: 90.7; Fernales: 86.7

No. of Districts: 8

District Area Population Head(sq km) (2001) quarters

Liant 3,576 3,37,812 Aizawi Charpen 3,186 1,01,357 Champhai 60,477 فاعتبا 1,283 Kolaub Langajila 73,050 2.557 Lawnquai Lara jas 1,37,155 4,535 Lungler 7. 1.5 62.1 3.026 MARTIL

60.823 Saiha Chhimtuioui 1,400 1,422 55,539 Serchhip Serchhip Villages: 817; Towns: 22

Governor: Lt. Gen. (Retd.) M.M. Lakhera

CM: Zoramthanga

Legislative Bodies: State Legislature: Unicameral -Seats: 40 members; Lok Sabha Seats: 1; Rajya Sabha Seats:1

Main Political Parties: Mizo National Front, INC, Mizoram People's Conference, Zoram Nationalist Party, Hmar Peoples Convention, Maraland Democratic Front...

Seat of High Court: Guwahati. Abench at Aizawl

Chief Languages: Mizo and English Major Religions: Christianity

Main Towns: Aizawl, Mamit, Lunglei, Lawngtlai, Saiha, Champhai

Geography: (a) RiversTlawng (or the Dhaleswari), the Sonai and the Tuivawl; (b) Mountains: Mizoram is a land of hills, the highest point being the Blue Mountain (2165 metres).

Economy: (a) Industries: Handloom, rice mills, flour mills, brick making, bamboo handicrafts, sericulture, electronics; (b) Agricultural Products: Maize and paddy. Pulses, sugarcane. chilly, ginger, turmeric, potato, tobacco, vegetables, banana and pineapple are the other important crops.

Transport & Communications: (a) Road Length: 4001.53 km; (b) Main Railway Stations: Bairabi; (c) Airports: Aizawl, Lunglei

Places of Interest Tam Dil - natural Lake. Vantawng Falls, Zotlang, Lunglei . Thenzawl hill station, Champhai resort, and Saitual resort, Dingdi Art gallery.

Education: (a) Schools: 2489; (b) Colleges: 29; (c) Universities: 1

Culture: (a) Dances: Bamboo dances. Khantum Solokia, Kuallam, Cheraw Kan, Chheiraw and Iam. Chheihlam (recounts heroics around rice beer) and Khuallam (a dance of guests); (b) Festivals: Chapchar Kut, Mim Kut (maize fest- Aug-Sept), Pawl Kut (harvestDec-Jan), Christmas, Easter; (c) Crafts: Puans woven on traditional looms, thi-hi (amber bead necklace). Dar-hi (glass bead necklace), shawls, cane and bamboo work, Lunglei, Chintapai, Vakiria (headgear).

Nagaland

Date of Formation: 1st Dec. 1963

Area: 16,579 sq km

Capital: Kohima

Neighbouring States: Manipur, Arunachal Pradesh, Assam, Myanmar (country).

Population: 1,990,036; Males: 1,047,141; Females: 942.895: Urban Population: 17.74%; (a) Population Density: 120; (b) Sex Ratio: 909

Literacy: 66.6%; Males: 71.2; Females: 61.5

No. of Districts: 8

District	Area	Population	Head-
	(sq km)	(2001)	quarters
Dimapur	927	3,08,382	Dimapur
Kohima	3,144	3,14,366	Kohima
Phek	2,026	1,48,246	Phek
Mokokchung	1,615	2,27,320	Mokokchung
Mon	1,876	2,59,604	Mon
Tuensang	4,228	4,14,801	Tuensang
Wokha	1,628	1,61,098	Wokha
Zunheboto	1,255	1,54,909	Zunheboto

Villages: 1,317; Towns: 9

Governor: Shyamal Dutta

CM: Neiphiu Rio

Legislative Bodies: State Legislature:: Unicameral-Seats: 60: Lok Sabha Seats: 1; Rajya Sabha Seats:1

Main Political Parties: INC, Nagaland Peoples Front, BJP, Nationalist Democratic Movement, JD-U, Samta Party, ...

Seat of High Court: Guwahati High Court. A bench is located at Kohima.

Chief Languages: Angami, Ao, Chang, Konyak, Lotha, Sangtam, Sema and Chakhesang

Major Religions: Hinduism, Christianity Main Towns: Kohima, Phek, Mon, Wokha, Mokokchung, Tuensang, Zunheboto Geography: (a) Rivers: Dhansiri, Doyang,

Dikhu and Jhanji; (b) Mountains: Saramati, the highest peak, is 3841 m high (c) National

Intangki, known for the Tragopan, very colourful cock, found only at Phek.

Economy: (a) Minerals: Nagaland's mineral wealth (coal, limestone, iron, nickel, co-

balt, chromium and marble) is immense, though unexplored yet; (b) Industries: Nagas make beautiful decorative materials. Nagaland

has achieved remarkable progress in small and medium industries. Today the state has 30 industrial units, and over 300 small-scale

industries. The Nagaland Sugar Mill at Dimapur has an installed capacity of 1,000 tonnes per day; (c) Agricultural Products: Rice, vegetable.

Transport & Communications: (a) Road Length: 9,860 km; (b) Main Railway Stations: Dimapur; (c) Airports: Dimapur

Education: * (a) Schools: 2058; (b) Col-

leges: 37; (c) Universities: 1 Culture: (a) Dances: Naga dance and

music are intrinsic part of Naga life mostly eulogising bravery, beauty, love and generosity; (b) Festivals: Hornbill festival (1st

week of Dec); Sekrenyi of Angamis (Touphema-Kohima, Feb 26-27); Monyu (Pongo-Longleng, Apr 1-3); Moatsu (Chuchuyi-mlang-Mokokchung, May 1-3); Emong, Tuluni - of Semas and

Pikhuchak festival of Lothas in Wokha; (c) Crafts: wood carving, hand woven shawl, baskets like Akhi, Akha, Chakhe-sang,

Christmas. Aoling festival of Konyaks,

Angami jewellery.

Date of Formation: 15 Aug 1947 Province

Area: 155,707 sq km

Capital: Bhubaneswar

Neighbouring States: Andhra Pradesh, Chhattisgarh, Jharkhand, West Bengal, Bay of Bengal (sea)

Population: 36,804,660; Males: 18,660,570; Females: 18,144,090; Urban Population: 14.97%; (a) Population Density: 236; (b) Sex Ratio: 972

Literacy: 63.196; Males: 75.3; Females: 50.5.

No. of Districts: 30

District	Area	Population	Head-
	(sq km)	(2001)	quarters
Angul	6,347	11,39,341	Angul
Bolangir	6,552	13,35,760	Balangar
Balasore	3,706	20,23,056	Balasore
Bargarh	5,832	13,45,601	Bargaiti
Bhadrak	2,788	13,32,249	Bhadrak
Boudh	4,289	3,73,038	Boudh
Cuttack	3,915	23,40,686	Cuttack
Deogarh	2,781	2,74,095	Deogarh
Dhenkanai	4,597	10,65,983	Dhenkanal
Gajapati	3,056	5,18,448	
Paralakhemundi			
Ganjam	8,033	31,36 937	Chhatrapur
Jagatsinghpur	1,759	10,56 556	Jagatsinghpur
Jajpur	2,885	16,22 868	
Jharsuguda	2,202	5,09 056	Iharsuguda
Kalahandi	8,197	13 34 372	Bhavanipatna
Kandhamai	6,004	6 47 912	Phulbani
Kendrapara	2,546	13 01 856	Kendrapara
Keonjhar	8,336	15 61 521	Keon,har
Khurda	2 888	18 14 405	Khurda
Koraput	8 5 3 4	11 77 954	Koraput
Malkangin	6115	4 80 232	Makargn
Mayurbhani	10 410	22 21 782	Barpasa
Nawarangpur	5.135		Navarargaur
Nayagarh	3 454	8 63,934	ستندرته أ
Nawapara	3,408	5 30,524	التستنمية
Puri	3.355	14 98,604	· · · ·
Rayagada	* 555	8,23,019	سسنيد نية
Sambalpur	- 12	9 28,839	
Sonepur	1.184	5 40,659	227

Villages: 51 349 Towns: IEE Governor Rameshwar Trau-

- 942 18,29,412 L

CM: Naveen Pathalk

Sundargarh

Legislative Bodles: 5222

Administration Unicameralis Sapra Seats 21 Rayva State

Main Political Parties

Dal, INC, BJP, Jharkhand Mukti Morcha, Orissa Gana Parishad, CPI, CPI-M

Orissa Gana Parishad, CPI, CPI-M

Seat of High Court: Cuttack

Chief Languages: Oriya

Major Religions: Hinduism, Jainism, Islam

Main Towns: Bhubaneshwar, Cuttack, Chhatrapur, Puri, Sambalpur, Balangir, Jharsuguda, Baragarh, Bhawanipatna, Koraput, Rourkela, Baleshwar, Bhadrak, Nabrangpur, Rayagada, Berhampur, Balangir, Phulbani, Dhenkanal, Kendrapara

Geography: (a) Rivers: Mahanadi, Brahmani, Baitarani, Tel, Pushikulya, Sabari; (b) Mountains: Garhjat Hills, Mahendra Giri; (d) Lake/Reservoir: Hirakud, Balimela, Chilka (The biggest and the most famous lake in Orissa is the Chilka lake. It is 64 km long and 16 to 20 km wide. There are two beautiful islands in the lake namely Parikud and Malud). Hirakud Dam, the fourth largest in the world, on Mahanadi is another attraction, Chilka, the largest brackish water inland lake in Asia. stretches over an area of 1100 sq.km. (d) National Parks: The largest Lion Safari of India, and the only White Tiger Safari in the world, are located on the outskirts of Bhubaneswar.

Economy: (a) Minerals: Chromite, bauxite, dolomite, graphite, iron-ore, coal, copper, kaolin, lead, quartzite, steatite and tin; (b) Industries: The Central Sector Projects are: Steel Plant at Rourkela, SAND Complex at Chhatrapur, Heavy Water Project at Talcher, Coach Repairing Workshop at Mancheswar, Aluminium Complex at Koraput, Captive Power plant at Angul, Aluminium Smelter at Angul and Fertilizer Plant at Paradeep. Major thermal and hydel power stations are Talcher, Hirakud and Chiplima. Other power projects are Upper Indravati, Upper Kolab, Rengali and lb. Centre has cleared a 10,000 MW power project at Hirma, Orissa to be commissioned by 2008; c) Agricultural Products: 64% of the working population is dependent on agriculture. Rice, pulses, oil-seeds, jute, mesta, sugarcane (the main cash crop), coconut and turmeric are important crops. The state contributes one-tenth of the rice production in India.

Transport & Communications: (a) Road Length: 3194km NH; 30 km state express highways; 5014 km SH; (b) Railway Length in 2003 was 2,311 km - broadguage and 90 km narrow-guage lines; (c) Main Rail-way Stations: Bhubaneshwar, Puri, Cuttack, Brahmapur, Balangir, Raurkela, Sambalpur; (d) Airports: Bhubaneshwar. There are 13 airstrips and 16 helipads in the state; (e)Ports: Paradeep (major) and Gopalpur (all-weather)

Education: (a) Schools: 55583; (b) Colleges: 618; (c) Universities: 9

Employment ('99-00): 11,928,000; Un-Employment ('99-00): 7.34%.

Culture: (a) Dances: Odissi, the dance form of Orissa, evolved in the shadow of the magnificent temples of the state. Dalkhai (tribal dance), Ghoomra, Ranapa and Chhadaya (folk dance); (b) Festivals: Rath Yatra (Puri), Shraban Purnima, Ashokastami, Chandan Yatra, Snana Yatra and Konark festival; (c) Handloom products of silk and tussar, silver filigree work (tarkashi), Pat chitra paintings, golden glass work.

Punjab

Date of Formation: 15 Aug 1947 Province; 26 Jan 1950 State (until 1956: part (A)

Area: 50,362 sq km

Capital: Chandigarh

Neighbouring States: Jammu & Kashmir, Himachal Pradesh, Haryana, Rajasthan, Pakistan (country)

Population: 24,358,999; Males: 12,985,045; Females: 11,373,954; Urban Population: 33.95%; (a) Population Density: 484; (b) Sex Ratio: 874

Literacy: 69.7%; Males: 75.2; Females: 63.4.

Area

(sq km)

Population

(2001)

5,86,637 Nawan Shehar

Head-

quarters

No. of Districts: 17

District

Nawan Shehar

Amritsar	5,075	30,74,207	Amntsar
Bhathinda	3,377	11,81,236	Bhathinda
Faridkot	1,472	5,52,466	Faridkot
Fatehgarh Sahib	1,180	5,39,751	Fatehgarh
			Sahib
Ferozepur	5,865	17,44,753	Ferozepur

Gurdaspur 3,570 20,96,889 Gurdaspur Hoshiarpur 3,310 14,78,045 Hoshiarpur Jalandhar 2,658 19,53,508 Jalandhar Kapurthala 1,646 7,52,287 Kapurthala Ludhiana 3.744 30,30,352 Ludhiana Mansa 2,174 6,88,630 Mansa Moga 1,672 8,86,313 Moga Muktsar 2.596 7,76,702 Muktsar

Patiala 3,627 18,39,056 Patiala Rupnagar 2,117 11,10,000 Rupnagar Sangrur 5,021 19,98,464 Sangrur Villages: 12,673; Towns: 157 Governor: Gen. (Retd.) SF Rodriques

1,258

CM: Capt. Amarinder Singh

Legislative Bodies: Legislature Unicameral - Seats: 117; Lok Sabha Seats: 13; Rajya Sabha Seats: 7

Main Political Parties: INC, Shiromani Akali Dal (Badal), BIP, CPI...

Seat of High Court: Chandigarh

Chlef Languages: Punjabi
Major Religions: Sikh, Hinduism, Chris-

Main Towns: Ludhiana, Amritsar, Bathinda, Jalandhar, Patiala, Moga, Ambala, Guru-

nda, Jalandhar, Patiala, Moga, Ambala, Gurudaspur Geography: (a) Rivers: Beas, Sutluj, Ravi;

(c) Plain Malwa, Sirhind, Manjha.

Economy: (a) Industries: The chief manufactures are textiles, sewing machines, sports goods, sugar, starch, fertilizers, bicycles, scientific instruments, electrical goods, machine tools and pine oil. A Science City is being set up at Jalandhar, (b) Agricultural Products: Wheat,

rice, maize, bajra, jowar, barley, oilseeds, sugarcane, potato, cotton, pulses, tobacço.

Transport & Communications: (a) Road Length: 48,543 km; (b) Railway Length: 3726.06 km; (c) Main Railway Stations: Ambala, Patiala, Jalandhar, Amritsar, Bhatinda; (d) Airports: An international airport at Rajasansi (Amritsar), Chandigarh, Bathinda, and Ludhiana.

Education: (a) Schools: 20037; (b) Col-

Education: (a) Schools: 20037; (b) Colleges: 293; (c) Universities: 8
Employment ('99-00): 8,013,000; Unemployment ('99-00): 4.03%.
Culture: (a) Dances: Bhangra, Gidda and

Thumar, (b) Festivals: Gurpurab, Lohri, Dussehra, Diwali, Holi, Hola Mohalla (Anandpur Sahib), Rauza Sharif Urs (Sirhind), Baisakhi (Talwandi Saboo), Chappar Mela, Sheikh Farid Agam Purb (Faridkot), Shaheedi Jor Mela (Sirhind), Harballah Sangeet Sammelan (Jalandhar); (c) Crafts: Pulkari embroidery on bed sheets, durries, shawls, jerseys.

Rajasthan

Date of Formation: 1 Nov 1956 Rajasthan (-full statehood); 25 Mar 1948 Rajasthan Union; 18 Apr 1948 United states of Rajasthan; 30 Apr 1949 United states of Greater Rajasthan (from 1950:Part (B)

Area: 3,42,239 sq km

Capital: Jaipur

Neighbouring States: Gujarat, 사용 다 Delhi, Haryana, Punjab, Pakistan (country

Literacy: 60 4%, Nago, 1777 % val. 43.9.

No. of Districts: 13

No. of Districts 12		مدامت والمهدان والر	
District	543	ووم ، مدسورون	*\$.# \
	. oz 6.11	.2800	ا المحدود سعد
A. ever	8.45	21 85 526	a. Kan
4/02	27.7	20,00 162	

6,955 10,22,568 Baran Baran 28,387 19,63,758 Barmer Barmer . 5,066 20,98,323 Bharatour Bharatour 10,455 20.09.516 **Bhilwara** Bhilwara Bikaner Bikaner 27,244 16,73,562 Bundi Bundi 5.550 9,61,269 10.856 18,02,656 Chittorgarh Chittorgarh Churu Churu 16,830 19.22.908 Dausa Dausa 2,950 13,16,790 **Dholpur** Dholpur 3.034 9,82,815 Dungarpur 3,770 11,07,037 Dungarpur Ganganagar 7,944 17.88.487 Ganganagar Hanumangarh 12.690 15,17,390Hanumangarh 11,588 52,52,388 Jaipur laipur 38,401 5,07,999 laisalmer laisalmer 10.640 14,48,486 lalore falore 6,219 Ihalawar 11,80,342 Ihalawar Jhunjhunu 5,928 19,13,099 Jhunjhunu lodhpur 22,850 28,80,777 Jodhpur 5,014 Karoli 12,05,631 Karali Kota 5,481 15,68,580 Kota Nagaur 17,718 27,73,894 Nagaur Pali 12,387 18,19,201 Pali Raisamand 4.768 9.86.269 Raisamand S. Madhopur 5,043 11,16,031 S.Madhopur Sikar 7,732 22,87,229 Sikar Sirohi 5,136 8,50,756 Sirohi Tonk 7,194 12,11,343 Tonk Udaipur 12,511 26,32,210 Udaipur

5,037

15.00,420

JE WW

Banswara

Governor: Smt, Pratibha Patil CM: Smt. Vasundhara Raie

Villages:: 41,353; Towns: 222

Legislative Bodies: State Legislature: Unicameral -200; Lok Sabha Seats: 25; Rajya Sabha Seats: 10

Main Political Parties: BJP, INC, Indian

National Lok Dal, BSP, JD-U, CPI-M, Lok Jan

Shakti Party, Rajasthan Samajik Nyaya Manch... Seat of High Court: Jodhpur and a

bench at Jaipur.

Chief Languages: Rajasthani, Hindi Major Religions: Hinduism, Jainism, Is-

lam Main Towns: Jaipur, Kota, Tonk, Jodh-

pur, Bikaner, Gandhinagar, Pali, Nagaur, Udai-pur, Bhilwara, Sikar, Alwar, Sawai Madhopur, Baran, Ajmer, Chittorgarh

Geography:(a) Desert: Great Indian

Banswara

Kali Sindh, Chambal, Indira Gandhi Nahar (Canal); (c) Mountains: Aravalli Range (Guru

Reservoirs Sambhar Salt Lake, Gudha, Rana

Shikhar Peak, 1722m), Alwar Hills, Sojat Hills, Mewar Hills, Mukandwara; (d) Lakes/

Desert (The Thar); (b) Rivers: Luni, Banas,

Pratap Sagar, Gandhi Sagar, Dhebar Lake, Mandor (e) Wildlife Sariska Tiger Park-Alwar, Keoladeo Ghana National Park. Economy: (a) Minerals: zinc concentrates.

emerald, garnet, gypsum, silver ore, asbestos, felspar, mica, rock phosphate, marble and red stone; (b) Industries: Textiles, rugged and woollen goods, sugar, cement, glass, sodium, oxygen and acetylene units, pesticides, insecticides and dyes are some of the major industries. Other enterprises include the manufacture of caustic soda, calcium carbide and ny-lon tyre cord and copper smelting. Marble work, woollen carpets, jewellery, embroidery, articles of leather,

pottery and brass embossing. Rajasthan handicrafts are famous all over the world; (c) Agricultural Products: The principal crops are jowar, bajra, maize, wheat, grams, oilseeds, cotton, sugarcane and tobacco. Transport & Communications: (3) Road Length: 1,53,734 km; (b) Railway

Length 6228 km; (c) Main Railway Stations: Jaipur, Jodhpur, Marwar, Kota, Alwar, Sawaai Madho-pur; (d) Airports: Jaipur, Jodhpur Education: *(a) Schools: 64665; (b) Col-

leges: 410; (c) Universities: 15 Employment ('99-00): 19,930,000; Un-

Employment ('99-00): 3.13%. Culture: (a) Dances: Khayal (dance-mu-

sic), Ghumar during Teej and Gangaur festi-

vals, Panihari, Chari, Kachchi Ghori; (b) Festivals:Deepawali, Vijayadashami, Holi, Teej, Gan-gaur (Jaipur), Urs of Aimer Sherif and Galia-kot, Christmas; (c) Fairs: tribal Kumbh of Bene-shwar (Dungarpur), Ramdeora (Jaisalmer), Mahavir fair at Shrì Mahavirji in Sawai Madho-pur, Janbeshwari Fair (Mukam-

Bikaner), Kartik Poornima and Cattle Fair

Manorama Yearbook 2007

(Pushkar-Ajmer) and Shyamji Fair (Sikar); (d) Craft: Bandhini (tie and dye) work, block printing, hand-knotted woollen carpets, massoria work, gharas kagzi potterry, pichwais (painting on cloth), phads (cloth scroll painting), lacquer-works.

Sikkim

Date of Formation: 16 May 1975 State

Area: 7,096 sq km Capital: Gangtok

Neighbouring States: West Bengal,

China-Nepal-Bhutan (countries)

Population: 540,851; Males: 288,484; Females: 252,367; Urban Population:11.10%; (a) Population Density: 76; (b) Sex Ratio: 875

Literacy: 68.8%; Males: 76.0; Females:

60.4.

No. of Districts: 4

District	Area (sq km)	Population (2001)	Head- quarters
East	954	1,78,452	Gangtok
North	4,226	31,240	Mangan
South	750	98,604	Namchi
West	1,166	98,161	Gyalshing

Villages: 452; Towns: 9 Governor: V. Rama Rao CM: Pawan Chamling

Legislative Bodies: State Legislature: Unicameral -Seats: 32; Lok Sabha Seats:1; Rajya Sabha Seats:1

Main Political Parties: Sikkim Democratic Front, INC.

Seat of High Court: Gangtok

Chief Languages: Lepcha, Bhutia, Hindi, Nepali and Limbu

Major Religions: Buddhism, Hinduism.
Main Towns: Gangtok, Namchi,
Cyalshing, Mangan, Jelep La, Pemayangtse,
Lachen, Yunthang

Geography: (a) Rivers: Teesta, Rangit; (b) Mountains: Kanchenjunga-the highest peak in India is situated here. (c) Khangchendzonga National Park is one of the highest national parks in the world and includes the world's third highest mountain (Kanchenjunga). Deorali is another National Park. The yak and the musk deer are animals found in Sikkim. There are over 4000 species of plants.

Economy: (a) Minerals: Gold, silver, copper, zinc; (b) Industries: There are units enga-ged in food processing, tanning, watch assembling and distilleries, breweries and flour mills; (c) Agricultural Products: The principal crops are maize, paddy, millet, wheat and barley. Orange, potatoes, apples and cardamom are also produced. Sikkim has the largest area and the highest production of large cardamom in India. Tea is grown in Sikkim.

Sikkim is very rich in varieties of orchids. Transport & Communications: (a) Road Length: 2383 km; (b) Main Railway Stations: No stations but the closest ones are Siliguri (114 km) and Jalpaiguri (125 km); (c) Airports: Gangtok.

Education: (a) Schools: 764; (b) Colleges: 5; (c) Universities: 2

Culture: (a) Dances: Mask dances of Bhutias, Nepalis and Lepchas are famous; (b) Festivals: Maghey Sankranti, Durga Puja, Chaite Dasai (Nepali), Pang Lhabsol and Losar (Bhutias), Namsoong and Tendong Hlo Rum Faat (Lepchas); (c) Crafts: Woollen carpets, with Tibetan designs, rough blankets, saris, cane and bamboo works, weed carving, handmade paper and silver works.

Tamil Nadu

Date of Formation: 15 Aug 1847 No. drasprovince; 26 Jan , 1950 State Lunt/1955 Part (A); 14 Jan , 1969 Renamed Tamil Nadu

Area: 1,30,058 sq km Capital: Chennai

Neighbouring States: kerala, Kamataka Andhra Pradesh Pondichery, Bay of Bengalis Indian Ocean Chennai 174 42,16,268 Chennai Coimbatore 7.469 42,24,107 Coimbatore Cuddalore 3.678 22.80.530 Cuddalore Dharmapuri Dharmapuri 9,622 28,33,252 Dindigul 6,058 19,18,960 Dindigul Erode 8,209 25,74,067 Erode Kancheepuram 4,433 28,69,920 Kancheepuram Kanyakumari 1,685 16,69,763 Nagercoil Karur 11.096* 9,33,791 Karur Madurai 6,565 25,62,279 Madurai Nagapattinam 2.716 14.87.055 Nagapattinam Namakkal 3,429 14,95,661 Namakkal Nilgiris 2,549 7,64,826 (Ootty) Udagamandalam Perambaloor 3691 11.81.029 Perambaloor Pudukkottai 4,651 14,52,269 Pudukkottai Ramana-Ramanathapuram 4,232 11,83,321 thapuram Salem 5,220 29,92,754 Salem Sivagangai 4,086 11,50,753 Sivagangai Thanjavur 3,397 22,05,375 Thanjavur Theni 2889 10,94,724 Theni Thiruvann-Thirtyannamalai 6,191 21,81,853 amalai Thiruvarur 2,161 11,65,213 Thiruvarur Tirunelveli 6,810 28,01,194 Tirunelveli Tiruvallur 3,424 27,38,866 Tiruvallur Trichirappalli 5114 23,88,831 Trichirappalli Tuticorin 4,621 15,65,743 Tuticorin Vellore 6,077 34,82,970 Vellore Viluppuram 7,217 29,43,917 Viluppuram Virudhunagar 4,288 17,51,548 Virudhunagar Villages: 16,317; Towns: 832 Governor: Surjit Singh Barnala CM: M Karunanidhi Legislative Bodies: State Legislature: Unicameral - Seats: 234; Lok Sabha Seats: 39; Rajya Sabha Seats: 18 Main Political Parties: All India Dravida Munetra Kazhagam, Dravida Munetra

Tamil Manila

Congress

Population: 62,405,679;

Literacy: 73.5%; Males: 82.4; Fe-

Population

(2001)

694,058

31,400,909; Females: 31,004,770; Urban Population: 43.86%; (a) Population Density:

Area

(sq km) 1,937

480: (b) Sex Ratio: 986

No. of Districts: 30

males:64.4.

District

Ariyalur

Males:

Head-

quarters

Ariyalur

ward Bloc ...

tianity.

Main Towns: Chennai, Coimbatore, Madurai, Vellore, Salem, Tanjavur, Cuddalore, Tutucorin, Tirunelveli, Udagamandalam, Nagercoil.

Geography: (a) Rivers: Palar, Kaveri, Vaigai, Cheyyar, Ponniyar, Meyar, Bhavani, Tamarapani, Chittar, Vellar, Noyal, Suruli, Vaipar, etc.; (b) Mountains: Along the whole

length of the western part, is the range of the

Western Ghats. The Palghat Gap about 25

km in width is the only marked break in the

great mountain wall. To the south of this

Palaghat Gap, the range is known as Anamalai

(Moopanar), Pattali Makkal Katchi, INC, CPI-M. CPI, BIP, MGR Anna DMK, All India For-

Major Religions: Hinduism, Islam, Chris-

Seat of High Court: Chennai

Chief Languages: Tamil

On the east are the Palani Hills on which is situated the famous hill station Kodaikanal. In the famous Ootacamund area of the Nilgiris District, is the highest peak Doddabetta, 2640 metres above the sea level.

Economy: (a) Minerals: Lignite, lime-

(Elephant Hills).

2640 metres above the sea level.

Economy: (a) Minerals: Lignite, limestone, magnesite, mica, quartz, felspar, bauxite, gypsum; (b) Industries: Cotton textile, automobiles, chemical fertilisers, paper and paper products, railway wagons and coaches, army tank, cement, iron & steel, computer

Products: Rice, maize, jowar, bajra, ragi, pulses, sugarcane, oilseed, cotton, chillies, coffee, tea, rubber, cardamom.

Transport & Communications: (a)
Road Length: 150, 095 km; (b) Railway Length
4181 km; (c) Main Railway Stations: Chennai, Madurai, Tiruchirapalli, Coimbatore and Salem; (d) Airports: Meenambakam International, Chennai; Madurai, Tiruchirapalli,

peripherals and software; (c) Agricultural

Madurai, Tiruchirapalli, Coimbatore and Salem; (d) Airports: Meenambakam International, Chennai; Madurai, Tiruchirapalli, Coim-batore, Salem; (e) Ports: Chennai and Thoo-thukudi (Tuticorin), Cuddalore, Nagapattinam.

Kazhagam,

Uttaranchal

Date of Formation: 9 November, 2000

Area: 53,483 sq km

Capital: (provisional): Dehradun

Neighbouring States: UP, Himachal Pradesh, countries- China and Nepal:

Population: 8,489,349; Males: 4,325,924; Females: 4,163,425, Urban Population: 25.59%; (a) Population Density: 159; (b) Sex Ratio: 964

Literacy: 71.6%; Males: 83.3; Females:59.6.

No. of Districts: 13

District	Area (sq km)	Population (2001)	Head- quarters
Almora	3,689	6,30,446	Almora
Bageshwar	1,696	2,49,453	Bageshwar
Chamoli	7,520	3,69,198	Chamoli
Champawat	2,004	2,24,461	Champawat
Dehradun	3,088	12,79,083	Dehradun
Garhwal	5,230	6,96,851	Pauri
Haridwar	2,360	14,44,213	Haridwar
Nainital	3,422	7,62,912	Nainital
Pithoragarh	7,169	4,62,149	Pithoragarh
Rudraprayag	2,439	2,27,461	Rudraprayag
Tehri Garhwal	3,796	6,04,608	New Tehri
Udhamsingh			
Nagar	3,055	12,34,548	Rudrapur
Uttarkashi	8.016	2.94.179	Uttarkashi

Villages: 16,826; Towns: 86 Governor: Sudershan Agarwal CM: Narain Dutt Tiwari

Legislative Bodies: State Legislature: Unicameral -Seats: 70; Lok Sabha Seats:5; Rajya Sabha Seats: 3; Jurisdiction of High Court: Uttaranchal

Main Political Parties: INC, BJP, BSP, Uttara-khand Kranti Dal, NCP...

Seat of High Court: Nainital

Chief Languages: Hindi, Garhwali, Kumaoni

Major Religions: HInduism, Sikhism Main Towns: Dehradun, Haridwar and

Haldwari-cum-Kathgodam.

Geography: (a) Rivers: Yamuna, Bhagirathi, Ganga, Ramganga, Tons, and Kali; (b) Mountains: Shiwalik range, Great

Himalaya, Garhwal Hills, Kumaon Hills; (c) Peaks: Nanda Devi -7817m, Kamet-7756m, Badrinath-7138m, Dunagiri-7066m, Bandarpunch-63020; (d) Passes: Thaga La, Tsang Chok La, Muling La, Mana Pass, Niti Pass, Darma Pass, Lampiya Dhura Pass, Mangsha Dhura Pass.

(e) Hill Stations: Mussoorie - (Lal Tiba,

Gun Hill, Kempty Falls, Lake, Surkunda Devi temple), Dehradun (IFRI, Sahasradhar(a), Chakrata, Nainital & Kumaon (mountaineering), Ranikhet, Bhim Tal, Naukuchia Tal, Bage-shwar, and Kausani. (f) Six of the seven national parks including Corbett National Park, Rajaji National Park, Nanda Devi National Park, Valley of Flowers, Kedarnath Sanctuary are in Uttaranchal.

Economy: (a) Minerals: limestone, rock phosphate, dolomite, magnesite, copper greyphyte, soapstone, gypsum, etc.; (b) Industries: forest-based, handicraft; (c) Agricultural Products:

Transport & Communications: (a) Road Length: 19,543 km.; (b) Main Railway Stations: Dehradun, Hardwar, Roorkee, Kotdwar, Kashipur, Udhamsingh Nagar, Kathqodam, Haldwani; (c) Airport Jolly Grant (Dehradun). Airstrips: Pantnagar (Udham Singh Nagar), (Naini-Seni (Pithoragath), Gauchar (Chamoli) and Chinyalisaur (Uttarkashi) - are being built).

Places of Interest: Pilgrimage: Gangotri, Yamunotri, Char Dham (Badrinath, Ke-darnath, Rudraprayag and Chamoli), Joshi-math, Hardwar, Rishikesh, Hemkund Sahib & Nanakmatta. Others: Valley of Flowers, Pindaari Glacier & Milam Glacier (trekking), Roop Kund, Dayara Bugyal, Auli (winter sports), Pithoragarh & Banbassa (rock climbing and trekking), Rishikesh (river rafting).

Education: (a) Schools: 19200; (b) Colleges: 51; (c) Universities: 7

Culture: (a) Dances: folk dances; (b) Festivals: Kumbh Mela / Ardh Kumbh Mela

ODO TIME

Governor: T.V. Rajeshwar CM: Mulayam Singh Yadav

Legislative Bodies: State Legislature:

Bicameral - Seats: Legislative Council - 108; Assembly -355; Lok Sabha Seats: 80; Rajya Sabha Seats: 31

Main Political Parties: Samajwadi Party, BSP, BJP, INC, Rashtriya Lok Dal,

Rashtriva Kranti Party, Apna Dal, CPI-M, Akhil Bharatiya Lok Tantrik Congress, JD-U,

Akhil Bharat Hindu Mahasabha, Janata Party, Lok Jan Shakti Party, National Loktantrik

Party, Samajeadi Janata Party (Rashtriya)... Seat of High Court: Allahabad and a bench at Lucknow.

Chief Languages: Hindi and Urdu. Major Religions: Hinduism, Islam.

Main Towns: Lucknow, Allahabad, Kanpur, Varanasi, Gorakhpur, Agra, Jhansi, Saharanpur, Etawah, Meerut, Ghaziabad, Noida, Aligarh, Faizabad.

Geography: (a) Rivers: Ganga, Yamuna, Gomti, Ghagra, Ramganga, Betwa; (b) Mountains: Lower hills of Shiwalik range,

Kaimur range; (c) Plains: Gangetic Plain. Rohilkhand Plain, Avadh Plain. (d) Wildlife: Dudhwa Nat. Park, Corbett Nat. Park. Sanctuaries- Kedarnath, Govind and Chilla.

Economy: (a) Minerals: Limestone, magnesite, coal, rock phosphate, dolomite, silicasand, pyrophylite; (b) Industries: Edible oils. paper, cement, aluminium, railway equipment, industrial chemicals, Handloom, etc.; (c) Agricultural Products: Wheat, rice, maize, barley, gram, sugarcane, potatoes, pulses and oilseeds.

Transport & Communications: (a) Road Length: 1,03,795 km. NH-3774 km, SH-7392 km, District Rd.-9911; (b) Railway Length; c) Main Railway Stations: Lucknow (main junction), Agra, Kanpur, Allahabad, Mughalsarai, Jhansi, Moradabad, Varanasi, Tundla, Gorakhpur, Gonda, Faizabad,

Bareilly, and Sitapur; (d) Airports: Lucknow, Kanpur, Varanasi, Allahabad, Agra, Jhansi, Bareilly, Hindon (Gazia-bad), Gorakhpur, Sarsawa, Fursatganj (Rae-Bareilly).

Education: (a) Schools: 153959; (b) Colleges: 957; (c) Universities: 40

Employment ('99-00): 49,387,000; Unemployment ('99-00): 4.08%.

Culture: (a) Dances: Kathak; (b) Festivals: Kumbh Mela, Ardh Kumbh, Kartik Pooranmasi, Dewa Sharief (place of Waris Ali Shah-Bara-banki); (c) Fair: Jhoola fair - of dolls (Mathura, Vrindavan Ayodhy(a), Bateswar cattle fair; (d) Crafts: silk saree and brocade (Banarasi silk), chikankari - hand stiched design, zardosi work, metalware, woodcarving, wood work inlaid with brassware on black sheesham, marbleware, glasswork, glaze pottery, etc.

West Bengal

Date of Formation: 15 Aug 1947 Province; 26 Jan, 1950 State (until 1956: Part (A)

Area: 88,752 sq km

Capital: Kolkata

Neighbouring States: Orissa, Jharkhand, Bihar, Sikkim, countries-Nepal, Bhutan, Bangladesh; and Bay of Bengal.

Population: 80,176,197; Males: 41,465,985; Females: 38,710,212; Urban Population: 28.03%; (a) Population Density: 903; (b) Sex Ratio: 934

Literacy: 68.6%; Males: 77.0; Females:59.6.

No. of Districts: 18			
District	Area	Population	Head
	(sq km)	(2001)	quarters
Bankura	6,882	31,91,822	Bankura
Birbhum	4,545	30,12,546	Suri
Bardhaman	7,024	69,19,698	Bardhaman
Koikata*	185	45,80,544	Kolkata
Cooch Behar	3,387	24,78,280	Cooch-Behar
Darjeeling	3,149	16,05,900	Darjecking
Hooghly	3,149	50,40,047	Chinsurah
Howrah	1,467	42,74,010	Howest
Jalpaiguri	6,227	34,03,204	Jalpagun
Malda	3,733	32,90,160	English base
Medinipur*	14,081	96,38,473	Medingu

urshidabad	5,344	20,02,717	Beitternpore
adia	3,927	46,03,756	Krishnagar
ırulia	6,259	25,35,233	Purulia
orth 24 Parganas	•	89,30,295	Barasat
outh 24 Parganas		69,09,015	Alipore
ittar Dinajpur	3,140	24,41,824	Raigunj
)akshin Dinajpur	2,219	15,02,647	Balurghat
Note: * The district Medinipur has been bifurcated on anuary 1, 2002 into Purba and Paschim Medinipur (the population figures of census 2001 are yet to be incor-			
norated)			

co 42 717 Remamnore

Villages: 51,043; Towns: 375 Governor: Gopal Krishna Gandhi CM: Buddhadev Bhattacharaya

Legislative Bodies: State Legislature: Unicameral -Seats: 294; Lok Sabha Seats: 42; Rajya Sabha Seats: 16

Main Political Parties: CPI-M, All India Trinamool Congress, INC, All India Forward Bloc, RSP, CPI, West Bengal Socialist Party, Gorkha National Liberation Front...

Seat of High Court: Kolkata Chief Languages: Bengali

Major Religions: Hinduism, Islam, Christianity

Main Towns: Kolkata, Kharagpur, Medinipur, Asansol, Murshidabad, Howrah, Bardhaman, Siliguri, Purnia

Geography: (a) Rivers: Bhagirathi, Mayurakshi, Damodar, Kangsbati, Teesta, Torsha, Jaldhaka, Mahananda, Subarnarekha and Rupnarayan; (b) Mountains: Susnia Hills, Darjeeling (b) Wildlife: Sundarbans National Park and Tiger Reserve

Economy: (a) Minerals: Coal and China clay are two important minerals being exploited.; (b) Industries:engineering, automobiles, chemicals, pharmaceuticals, aluminium, ceramics, jute, cotton textiles, tea, paper, leather, footwear, bonemeal, bicycle, dairy, poultry and timber-processing. Central public sector undertakings include locomotive, cable, fertiliser, ship-building and ordnance; (c) agricultural Products: Rice, Wheat, pulses. Oilseed.

km NH., (Mar. 31, 1999); (b) Railway Length 3,697.25 km.; (c) Main Railway Stations: Howrah, Asansol, Sealdah, Bandel, Bardhaman, Kharagpur, New Jalpaiguri. Calcutta's Metro Rail project, the first of its kind in the country, was commissioned in 1995; (d) Airports: Dum Dum International (Kolkata), Bagdogra, Kalaikunda, Panagarh, Malda, Barrackpore, Behala, Balurghat and Coochbehar; (e) Ports: Kolkata and Haldia

Education: (a) Schools: 59551; (b) Colleges: 442; (c) Universities: 28

Employment ('99-00): 22,656,000; Un-Employment ('99-00): 14.99%.

Culture: West Bengal is known for its textiles; handlooms; Murshidabad and Baluchari silk sarees; Kantha embroidery; cane and bamboo work, leather craft, clay dolls & toys, masks, sholapith works; (a) Dances: Chhau (Purulia), Rabindra Nritya; (b) Festivals: Durga puja is the most important festival along with Kali puja or Diwali. Vasant Pan-chami, Lakshmi puja, Holi, Sivaratri, Janma-shtami, Id-ul-Fitr.

Delhi

Date of Formation: December 1991

Area: 1,483 sq km Capital: Delhi

Neighbouring States: Haryana, UP.

Population: 13,850,507; Males: 7,607,234; Females: 6,243,273; Urban Population: 93.01%; (a) Population Density: 9,340; (b) Sex Ratio: 821

Literacy: 81.7%; Males: 87.3; Females: 74.7.

No. of Districts: 9 Villages: 165; Towns: 62 Lt. Governor: Shri B.L. Joshi CM: Smt. Sheila Dikshit Main Political Parties: INC, BJP, NCP, ID-Secular.

Chief Languages: Hindi, Punjabi, Urdu and English.

Major Religions: Hinduism, Islam, Sikhism, Christianity, Jainism

Main Towns: New Delhi, Delhi Cantt, Palam, Mehrauli, Shahdara, Alipur, Badaali, Nazafgarh, Narela.

Geography: Rivers: Yamuna

Economy: (a) Industries: electronics, light engineering machines, automobile parts, sport goods, bicycles, PVC goods, footwears, textiles, fertilisers, medicines, hosiery, leather goods, softwares, etc.; (b) Agricultural Products: wheat, bajra, jowar, gram, maize. Now fruit crops, vegetables, floriculture, dairy and poultry farming are more common.

Transport & Communications: (a) Road Length: Inter-State terminuses: Kasmere Gate, Sarai Kalen Khan and Anand Vihar; (b) Railways Delhi Metro Service is very important connecting important places within the city; (c) Main Railway Stations: Delhi In., New Delhi, Hazrat Nizamuddin; (d) Airports: Indira Gandhi International Airport, Domestic flight -Palam and for training Safdarjung.

Tourist Destinations: Purana Qila, Qutub Minar, Tughlaqabad Fort, Lal Quila (Red Fort), Jama Masjid, Humayun's Tomb, Lodi Gardens, Jantar Mantar, India Gate, Rashtrapati Bhavan, Sansad Bhavan, Raj Ghat, Bahai Temple, Birla (Lakshmi Narian) Mandir

National Museum, Nehru Memorial Museum, Craft Museum, National Museum of Natural History, National Museum of Modern Art, Central Cottage Industries Emporium (Janpath), States Emporia (Baba Kharak Singh Marg), Dili Haat - handicrafts.

Education: (a) Schools: 4391; (b) Colleges: 107; (c) Universities: 16

Culture: (a) Festivals: Roshnara festival, Shalimar festival, Qutab festival, Winter Car-

State	NSDP	PC NSDP
Andhra	136173	17916
Arunachal	1628	14771
Asom	29419	11034
Bihar	45878	5445
Chhattisgarh	24980	11952
Goa	6736	49673
Gujarat	106099	20695
Haryana	53110	24820
HP	13320	21543
J&K	13697	13320
Jharkhand	25273	9392
Karnataka	93383	17518
Kerala	63817	19803
MP	73480	12027
Maharashtra	237112	24248
Manipur	2767	11410
Meghalaya	3529	15070
Mizoram	1777	19696
Nagaland	3864	18911
Orissa	37049	10021
Punjab	61976	25248
Rajasthan	78761	•
Sikkim	1039	
TN	126797	
Tripura	5660	
Uttaranchal	11361	
UP	164137	
WB	144389	
NCT: Delhi	61575	
UTs		
A&N Is.	935	
Chandigarh	4520	
D&NH		
Daman&Diu		
Lakshadweep		
Puducherry	3609	

nival, Garden Tourism & Mango festiv Besides International Industrial Exhil tions, Automobile Exhibitions, Defense Exhibitions, etc.

Andaman & Nicobar Is.

Date of Formation: 1 Nov., 1956-Union Territory

Area: 8,249 sq km Capital: Port Blair

Neighbouring States: Sea

Population: 3,56,265; Males: 192,985; Females: 163,280.

Until the colonisation of India, Andaman Islands were inhabited by 4 Negrito tribes viz., the Great Andamanese, Onge, Jarawa & Sentinalese and 2 Mongoloid tribes viz., Nicobarese and Shompens.

(a) Population Density: 43; (b) Sex Ratio: (females per 1000 males): 846

Literacy: 81.18%; Males: 86.07; Females: 75.29.

No. of Districts: 2

District	Area	Population	Head-
	(sq km)	(2001)	quarters
Andaman	6,408	3,14,239	Port Blair
Nicobar	1,841	42,026	Car Nicobar

Area, Sub Divisions, Tehsils

Sub Division	Tehsils in the Sub division	Area sq km
1. Mayabunder	1. Diglipur	884
	2. Mayabunder	1348
	3. Rangat	1098
2. South Andaman	1. Port Blair	
	2. Ferrargunj	3010
3. Car Nicobar	1. Car Nicobar	129
4. Nancowne	1. Nancowne	1824

Villages: 547; Towns:3

Lt. Governor: Lt. Gen. (Retd.) M.M. Lakhera

Legislative Bodies: State Legislature: None; Lok Sabha Seats:1; No. of Rajya Sabha Seats None

Seat of High Court: Calcutta H.C., circuit bench at Port Blair.

Chlef Languages: Bengali, Hindi, Telugu, Tamil & Malayalam; Local dialects: Nicobarese, Nicobarese.

Main Towns: Shyamnagar, Nabagram,

Mayabunder, Uttara, Checkpoint, Herbertahad, Bamboo Flat, Wrightmyo, Port Meadows, Wandoor.

Geography: Mountains: The islands form the peaks of several submerged mountain range that extends for almost 1000km between Myanmar and Sumatra. Saddle Peak (732m), is the highest peak. Rivers: Alexandra, Dagmar, Galathea (Gr. Andamans), Kalpong (N. Andamans)

National Parks: Mahatma Gandhi Marine National Park, Rani Jhansi Manne National Park, Middle Button Island, National Park, Mount Harriet National Park, North Button Island National Park, Saddle Peak National Park, South Button National Park, Campbell Bay National Park, Galathea National Park.

Economy: A total of 48,594 hectares of land is used for agriculture purposes. The principal crops are rice, coconuts and arecanut. Other crops are sugarcane, pulses, fruit and vegetables. Spices and rubber are being tried. Fisheries, tourism and ship repairing are the areas that can create jobs. There are 3 newspapers and 22 periodicals. Schools number 316 in all. The islands have a fleet of 57 ships. The installed capacity of power generation is 30,000 kw, with all revenue villages electrified; (a) Industries. There are 1421 registered small scale village units viz , fish processing factory, soft drinks, beverages, PVC conduit pipes, paints, furniture, etc., and handicraft units, (b) Agricultural Products: Rice, pulses, coconut, arecanut, coffee, sugarcane

Transport & Communications: (a) The islands are accessible by air and sea. It is are connected to Kolkata, Chennai by air and by sea to Kolkata, Chennai and Vishakapatram. The UT's transport system serves 9 mayor disfrom Diglipur to Campbell Bay, for manyor bunder and Diglipur using 3 ferry paragraphs are 5 wharfs and 41 jetties lander.

olackñtapped roads; (c) Airports: Port Blair Education: 4 (a) Schools: 356; (b) Col-

eges: 3: (c) Universities: 0

Chandigarh

Date of Formation: UT since 1966

Area: 114 sq km Capital: Chandigarh

Neighbouring States: Punjab, Haryana Population: 9,00,914; Males: 508,224;

emales: 392,690; Urban Population 89.78%; (a) Population Density: 7903; (b) Sex Ratio:

773

Literacy: 81.76%; Males: 85.65; Females: 76.65.

No. of Districts: One

Villages: 24; Towns: 1

Administrator: Gen. (Rtd.) S.F. Rodrigues

Legislative Bodies: Lok Sabha Seats:1; Raiya Sabha Seats: None

Seat of High Court: Punjab & Haryana (at Chandigarh)

Chief Languages: Hindi, Puniabi and English

Major Religions: Sikhism, Hinduism Main Towns: Chandigarh

Economy: (a) Industries: Hosiery, antibiotics, cycles, electrical metres, home appliances, electronic equipments. There are 15 large and medium scale industrial units in Chandigarh, out of which two are public sector undertakings. More than 3000 units are registered under small scale sector and they offer employment to about 30,000 persons. The neighbouring States have developed industrial estates right next to the city; (b) Agricultural Products: The Territory has 1.400 hectares of cultivable land. The irrigated area is about 1,450 ha. Wheat, maize and paddy are the major crops. The forest covers 27 per cent of the area.

Transport & Communications: (a) Road Length: NH-15.275 km.; (b) Main Railway Stations: Chandigarh; (c) Airports: Chandigarh.

Education: * (a) Schools: 162; (b) Colleges: 21; (c) Universities: 2

Culture: Festivals: Lodhi, Baisakhi

Dadra Nagar Haveli

Date of Formation: 11 Aug 1961

Area: 491 sq km Capital: Silvassa

Neighbouring States: Gujarat, Maharashtra

Population: 2,20,451; Males: 121,731; Females: 98,720; Urban Population: 22.89%; (a) Population Density: 449; (b) Sex Ratio: 811

Literacy: 60.03%; Males: 73.32; Females: 42.99

No. of Districts: One

Villages: 70: Towns: 2

Administrator: Rajani Kant Verma.

Legislative Bodies: State Legislature: None; Lok Sabha Seats:1; Rajya Sabha Seats: None

Seat of High Court: Mumbai

Chief Languages: Bhili, Gujarati, Bhilodi, Marathi and Hindi

Main Towns: Silvassa

Geography: Rivers: Silvasa, Khanvel

Economy: (a) Industries: Textiles, engineering, chemicals, electronics, cottage; (b) Agricultural Products: Ragi, wheat, sugarcane, paddy, pulses, mango, chiku, lichi

Transport & Communications: (a) Road Length: 556 km; (b) Main Railway Stations: Vapi is 18 km from Silvassa; (c) Airports: Nil.

Education: (a) Schools: 236; (b) Colleges: 0; (c) Universities: 0

Culture: Festivals: Diwaso, Bhawada, Kali Puja.

Daman & Diu

Date of Formation: 30 May 1987

Area: 112 sq km

Capital: Daman

Neighbouring States: Gujarat,
Maharashtra, Dadra Nagar Hayeli.

Maharashtra, Dadra Nagar Haveli.

Population: 1,58,059 Males: 92,478; Fe-

males: 65,581, Urban Population: 36.26%; (a) Population Density: 1411; (b) Sex Ratio: 709

Literacy: 81.09%; Males: 88.40; Females: 70.37.

No. of Districts: 2

District	Area (sq km)	Population (2001)	Head- quarters
Daman	72	1,13,943	Daman
Diu	40	44,110	Diu

Villages: 23; Towns: 2

Administrator: Rajani Kant Verma.

Legislative Bodies: State Legislature: None

Legislative Bodies: Lok Sabha Seats: 2; Rajya Sabha Seats: None

Seat of High Court: Mumbai

Chief Languages: Gujarati, Hindi, Marathi

Major Religions: Hinduism, Christianity

Main Towns: Daman, Diu

Geography: Rivers: Kalem, Bhagwan (Daman)

Economy: (a) Minerals: Salt; (b) Industries: Fishing, tourism, and distillery.

Transport & Communications: (a) Road Length: 191 - Daman, 78 - Diu; (b) Nearest Railway Stations Vapi for Daman and Delvada for Diu; (c) Airports: Daman, Diu

Education: (a) Schools:100; (b) Colleges: 2; (c) Universities: 0

Lakshadweep

Date of Formation: 1 Nov 1956 Laccadive, Minicoy, and Amindivi Islands union territory (separated from Madras (see Tamii Nadu)) 1 Nov 1973. Renamed Lakshadweep

Area: 32 sq km

Capital: Kavaratti

Neighbouring States: Kerala, Karrataka, Atabian Sea Population: 60,595; Males:31,118; Females: 29,477; Urban Population: 44,47%; (a) Population Density: 1,894; (b) Sex Ratio: 947 Literacy: 87.52%; Males: 93.15; Females:

81.56.

No. of Districts:1. The entire group of islands is considered one district and divided into four tabsils.

Villages: 24; Towns: 3

Administrator: Rajendra Kumar

Legislative Bodies: State Legislature: None; Lok Sabha Seats: 1; Rajya Sabha Seats: None

Seat of High Court: Kerala (located in Kochi)

Chief Languages: Jeseri (Dweep Bhasha), Mahal and Malayalam

Major Religions: Islam

Major Islands: Kavarati, Agati, Minicoy, Andrott, Kalpeni, Amini, Kadamatt, Kiltan,

Geography: Its 36 islands covering an area of 32 sq. km only 10 are inhabited. Androth, 4.8 sq. kms, is the largest inhabited island and closest to the Kerala coast.

It is an archipelago of atolls, reeft and banks covered by the sea. The crip that islands in India are found in Laktrustical There are 27 coral Islands. The 10 minute islands are Andrott, Amini, Agant, Entertain Chetlat, Kadamath, Kalpeni, Katamati Amand Minicoy) and 17 uninhabited united island is wider than 1.5 kms.

Lakshadweep with its lagran and a mind 4,200 sq. km, 20,000 sq. km a mind waters and about seven last at mind an nomic zone, is one of the largest section our nation

Economy: (a) Minerals and similar Industries: Fishing, coalations are travel, coir; (c) Agricultura are rut, Copra,

Transpoi

Takes applied 13 to

Airports: Agatti; (b) Port: Kavaratti, Minicoy, Agatti, Kadamatt, Kalpeni.

Education: (a) Schools: 36; (b) Colleges:

0; (c) Universities: 0

Puducherry (Pondicherry)

Date of Formation: 7 Jan 1963 Pondicherry union territory

Area: 492 sq. km

Capital: Pondicherry

Neighbouring States: Tamil Nadu, Karaikal (T.N.), Mahe (Kerala), Yanam (Andhra Pradesh, Bay of Bengal.

Population: 9,73,829; Males: 486,705; Females: 487,124; Urban Population: 66.57%; (a) Population Density: 2,029; (b) Sex Ratio: 1,001.

Literacy: 81.49%; Males: 88.89; Fe-

males:74.13.

No. of Districts: 4

District	Area (sq km)	Population (2001)	Head- quarters
1. Karaikal	160	1,70,640	Karaikal
2. Mahe	9	36,823	Mahe
3. Pondicherry	293	7,35,004	Pondicherry
4. Yanam	30	31,362	Yanam

Villages: 92; Towns: 6

Lt. Governor: Mukut Mithi

CM: N. Rangaswamy

Legislative Bodies: State Legislature: Unicameral -Seats: 30; Lok Sabha Seats:1;

Rajya Sabha Seats: 30; Lok Sabha Seats: 1;
Rajya Sabha Seats: 3

Political Parties: Indian National Congress,

Dravida Munetra Khazagam, Puducherry Makkal Congress, All India Dravida Munetra Kazagam, Tamil Manila Congress-Moopanar, Bharatiya Janatha Party.

Seat of High Court: Madras High Court. Chief Languages: Tamil, Telugu, Malayalam, English and French.

Major Religions: Hinduism, Islam, Christianity.

Main Towns: Pondicherry, Karaikal, Yanam, Mahe.

Geography: Rivers: Gingee, Mahe, Arasalar (Karaikal), Gauthami (Yanam) Economy: (a) Industries: Textiles, computer hardware, electronics, plastic, bicycle parts, alcoholic beverages, electrical appliances, automobile parts, soap, rice bran oil, cotton yarn, sugar, glazed tiles, etc.; (b) Agricultural Products: Rice, pulses, coconut, arecanut, condiments etc. Groundnut, chillies are grown in Yanam.

Length: 2,443 km.; (b) Main Railway Stations: Villupuram Jn. (nearest railway link.); (c) Airports: (nearest-Chennai); (d) Port: Pondicherry. **Education:** # (a) Schools: 657; (b) Col-

Transport & Communications: (a) Road

leges: 27; (c) Universities: 1 **Culture:** (a) Dances: Podikazhi attam; (b) Festivals: Mascarade (mask festival, Mar-

Apr), Masimagam (Feb-Mar), eve of French Bastlle Day- is marked by flags and parade; (c) Crafts: Hand-printed textiles, Kalakari batik, marbling work, handmade paper, bronzework.

Pondicherry's History The modern history began with the

arrival of the French in 1673, who controlled the territory for more than 280 years. The French East India Company established a settlement in 1674. Mahe was founded in 1725, Yanam in 1731 and Karaikal in 1739. Mahe was the site of prolonged battle between Britain and Francein 18th & 19th centuries. The French captured the town in 1726. Yanam was

Karaikal was a part of the Chola empire but was later captured by the Vijayanagaras, Marathas, and finally the French.

part of the Chola empire,

In 1954, the French, made a de facto transfer of the four territories to the Union of India. Its de jure transfer took place only in 1956 and the instrument of ratification was signed in 1962.

Note: Education# Source: Eco. Survey 2004-05, S-111, Tab. 9.3)



PART



માં ભાંદવિવાદ દાવી ક્વિવાપાં છે.

Alcoholics Anonymous

AL KNOWLEDGE

: Asian Athletics Association : The Amateur Athletics Federation of

c: Atomic Biological and Chemical (War-

fare); Audit Bureau of Circulation BLE:Association of Biotechnology Led En-

AC: Ante Christum (Before Christ), Alternat-

ing Current; Ashoka Chakra; Air Condi-

ACR: Annual Confidential Report

AD: Anno Domini (in the year of our Lord) ADAM: Animated Dissection of Anatomy for

ADB: Asian Development Bank

ADBS: Advanced Data Broadcast System ADC: Aide-de-camp (help or assistant)

AFI:Athletics Federation of India AFMC: Armed Forces Medical College

AFP: Agence France-Presse AG: Accountant General; Adjutant General

ACP: Accelerated graphics port

AH: Anno Hegirae (Moha-mmed's flight from

Mecca to Medina, 622 AD) AI : Artificial Intelligence; Air India AICTE: All India Council for Technical Educa-

AIDS: Acquired Immune Deficiency Syndrome

AIFF: All India Football Federation American International Group

AIIMS: All India Institute of Medical Sciences AINEC: All India Newspaper Editors' Confer-AIG:

ATTUC: All India Trade Union Congress

ALCOL: Algebraic Oriented Language AM: Ante Meridiem (before noon); Amplitude Modulation

AMIE: Associate Member of the Institute of Engineers

ANA: All Nippon Airways ANC: African National Congress ANERT: Agency for Non-conventional En-

ergy and Rural Technology

ANZUS: Australia, New Zealand US (Pacific

Pact Nations)

AOC: Air Officer Commanding

APCTT: Asian and Pacific Centre for Transfer

AQA:Assessment and Qualification Alliance

APD: Automated Peritoneal Dialysis

APEC: Asia Pacific Economic Cooperation APM: Administered Price Mechanism

ARPANET: Advanced Research Project

ART: Assisted Reproductive Technologies

ASAP: as soon as possible

ASCII: American Standard Code for Informa

ASEAN: Association of South East Asian N

ASEM: Asia-Europe Meeting

ASLV: Augmented Satellite Launch Ver ASSOCHAM: Associated Chamber of

ASP: Application Service Provider, A merce and Industry

tion of Shareware Professionals AT&T: American Telegraphic and Tel

ATC: Air Traffic Control Co. Ltd.

ATM: Automated Teller Machine, Ac

ATP: Adenosine Tri-Phosphate

ATS: Anti-Tetanus Serum

AU: Astronomical Units; African

Vershook 2007

LRD: Association of Voluntary Agencies or Rural Development

RC: Audio Visual Research Centre

SM: Ati Vishisht Seva Medal

'ATAR: Aerobic Vehicle for Hypersonic Aerospace Transportation; Advanced Video

Attribute Terminal Assembler and Recreator

WACS: Airborne Warning And Control Sys-

tem

2B: Busines to Business

2C: Business to Consumer

SARC: Bhabha Atomic Research Centre 3BC: British Broadcasting Corporation

BBS: Bulletin Board Service

BC: Before Christ

BCG: Bacillus Calmette-Guerin (anti-TB vaccine) **BENELUX:** Belgium, Nether-lands and Lux-

BENELUX: Belgium, Nether-lands and Lux embourg

BGA: Blue Green Algae

BHEL: Bharat Heavy Electri-cals Ltd

bhp: brake horsepower

BIFR:Board for Industrial and Financial Reconstruction

BIMARU: Bihar, Madhya Pradesh, Rajasthan, Uttar Pradesh

BIMSTEC: Bangladesh, India, Myanmar, Sri Lanka, Thailand Economic Cooperation

BIOS: Basic Input Output System

BIS: Bank of International Settlement; Bureaus of Indian Standards

BIT: Binary Digit

BITSAT: Birla Institute of Technology and Science Admission Test

BOLT: Bombay Stock Excha-ngeOn-LineTrading; Build-Operate-Lease-Transfer

BOT:Build, Operate and Transfer

BP: Blood Pressure

BPL: Below Poverty Line

BPR: Business Process Outsourcing **BPR:** Business Process Re-engineering

bps: bytes per second

BRO: Border Roads Organi-sation **BSE:** Bombay Stock Exchange **BSF:** Border Security Force **BSNL:** Bharat Sanchar Nigam Limited

C2C: Consumer to Consumer **C-in-C:** Commander-in-Chief

c.v.: Curriculum vitae

C/o: care of

CA: Chartered Accountant

CABE: Central Advisory Board of Education

CAD: Command Area Development; Computer Aided Design

CADA: Command Area Development Authority **CAFOD:** Catholic Fund for Overseas Devel-

opment

CAFTA:Central American Free Trade Agreement

CAG: Comptroller and Auditor General of India

CAMPCO: Central Arecanut Marketing and Processing Co-operative

CAN: Calcium Ammonium Nitrate

Cantab: Cantabrigian (of Cambridge University)

CAPA: Centre for Asia Pacific Aviation

CAPART: Council for Advancement of People's Action and Rural Technology

CAPES: Computer-Aided Paper-less Examination System

CAS: Conditional Access System

CAT: Career Aptitude Test; Common Admission Test; Computerized Axial Tomography (also called CT); Computer Adaptive Test

CBA: Colliding Beam Accelerator.

CBDT: Central Board of Direct Taxes

CBFC: Central Board of Film Certification.

CBI: Central Bureau of Investigation

CBM: Confidence Building Measures

CBSE: Central Board of Secondary Education

CBU: completely built-up

CCPD: Continuous Ambulatory Peritoneal Dialysis

CD: Compact disk; Certificate of deposit

CDAC: Centre for the Development of Advanced Computing

CDM: cold dark matter

CECA: Comprehensive EconomicCo-operation Agreement CELTA: Certificate for English Language

Teaching to speakers of Other Languages CEO: Chief Executive Officer

CERN: Conseil European pour la Researche Nucleare (European Laboratory for Nuclear

Research)

cert: Computer Emergency Response Team cf compare / refer (L. Confer) CFC: Chloro Fluoro Carbon

CFC: Common Fund for Commodities

CFL: Compact Fluorescent Lamps CFO: Chief Financial Officer

CFSL: Central Forensic Science Laboratory CGFNS: Commission on Graduates of For-

eign Nursing Schools CGI: Common Gateway Interface

CGPA: Cumulative Grade Point Average CGS: Chief of General Staff; Centimetre, Gram, Second

CIA: Central Intelligence Agency CIBIL: Credit Information Bureau India Ltd. CID: Criminal Investigation Department

cif: cost, insurance and freight CIGAR: Consultative Group on International

Agricultural Research CII: Confederation of Indian Industry

CIS: Commonwealth of Independent States CISC: Complex instruction-set computing CISCE: Council for the Indian School Certifi-

cate Examinations CITU: Centre of Indian Trade Unions

CKD: Completely Knocked Down CMIE: Centre for Monitoring the Indian Economy

CMP: Common Minimum Programme **CNC:** Computerised Numerical Control

CNN: Cable News Network CO: Commanding Officer

COD: cash on delivery

COFEPOSA: Conservation of Foreign Exchange and Prevention of Smuggling Act

COMPS: Coastal Ocean Monitoring and Prediction System

COMSAT: Communications Satellite Corporation

CONCORD: Council of North Indian States for Co-operation and Regional Development

COPRA: Consumer Protection Act CORBA: Common Object Request Broker Ar-

chitecture COSMEP: Consortium of Schools of Mathematics Experience Programme

COSTFORD: Centre of Science and Technology for Rural Development

CPI/M: Communist Party of India / Marxist CPR: Cardio Pulmonary Resuscitation

CPWD: Central Public Works Department CRIDA: Central Research Institute for Dryland Agriculture

CRIS: Centre for Railway Information System CRISIL: Credit Rating Information Services of India Ltd.

CRM: Customer Relations Management CRR: Cash Reserve Ratio

CRY: Child Relief and You CSC:Customer Service Centre

CSIR: Council of Scientific and Industrial Research

CSO: Central Statistical Organisation CT: Computerised Tomo-graphy

CWC: Chemical Weapons Convention; Con-

CTBT: Comprehensive Test Ban Treaty CVC: Chief Vigilance Commission

CVR: Cockpit Voice Recorder

gress Working Committee Cwt: Hundredweight (112 lb)

CYMK: Cyan, Yellow, Magenta, Kinda

D & C: Dilation and Curett-age

D.Litt.: Doctor of Literature

D.Phil.: Doctor of Philosophy D.Sc: Doctor of Science

DAP: Di-Ammonium Nitrate

DC: Direct Current: District of Columbia

DDT: Dichloro-diphenyl-trichloro-ethane

DET: Directory Entry Table

DG: Dei gratia (by the grace of God) DHSD: Duplex-High Speed Data Service

Manorama Yearbook 2007

	El To Carolinia I anno 1 anno 1 anno 1 anno 1 anno 1 anno 1 anno 1 anno 1 anno 1 anno 1 anno 1 anno 1 anno 1 a
DIG: Deputy Inspector General	ELT: English Learning and Teaching
DMA: Direct Memory Access	EMI: Equated Monthly Instalments
DMK: Dravida Munetra Kazhagam	EMRC: Educational Media Research Centre
DMZ: Demilitarized Zone	ENIAC: Electronic Numerical Integrator and
DNA: Deoxyribo-nucleic Acid	Calculator
DNB: Diplomate of the National Board	ENT: Ear, Nose and Throat
DPBS: Developmental Press Bulletin Service	EOF: end of file
DPEP: District Primary Education Programme	EOS : Electronic Online System International
DPT: Diphtheria, pertussis and tetanus	EOU: Export Oriented Unit
(vaccine)	EPABX: Electronic Private Automatic Branch
DSB: Digital Satellite Broadcasting	Exchange
DSL: digital subscriber line	EPCI: Enhanced Proliferation Control Initia-
DSP: Digital Signal Processing	tive
DTH: Direct to Home	EPG: Eminent Persons Group
DTP: Desktop Publishing	EPI: Expanded Programme of Immunisation
DTS: Digital Theatre System	EPIRB: Emergency Position Indicating Radio
DV: Deo Volente (God willing)	Beacon
DVC: Damodar Valley Corporation	EPNS: Electroplated Nickel Silver
DVD: Digital Versatile/Video Disc	EPROM: Erasable, Programmable Read Only
DVI: Digital Video Interactive	Memory
DVS: Desktop Video-Con-ferencing Software	EPS: Encapsulated Postscript
E & OE: Errors and Omissions Excepted	EPZ: Export Processing Zone
E&Y: Earnest & Young	EQ: Emotional Quotient
E-MAIL: Electronic Mailing	ER&DC: Electronic Research and Develop-
EAM: emergency action message	ment Center
ECA: Essential Commodities Act	ERM: European Exchange Rate Mechanism
ECG: Electro Cardiogram	ERNET: Educational and Research Network
ECGC: Export credit guarantee corporation	ERNIE: Electronic Random Number Indicator
of India	Equipment
ECOSOC: Economic and Social Council (UN)	ESA: European Space Agency
ECR: Electron Cyclotron Resonance	ESCAP: Economic and Social Commission
EDI: Electronic Data Interchange	for Asia and the Pacific
EDMS: Electronic Document Management	ESMA: Essential Services Maintenance Act
System	ESP: Extra Sensory Perception
EDT: Eastern Daylight Time	ESR: Electron Spin Resonance
EEG: Electro Encephalo-gram	ESSD: Environmentally and Socially Sustain-
EEZ: Exclusive Economic Zone	able Development
EFTA: European Free Trade Association	et al.: et alii (and others)
e.g.: exempli gratia (for example)	et. seq: et sequentia (& what follows)
EGP: Exterior Gateway Protocol	etc. et: cetera (and so forth)
Els: Executive Information System	ETT: Embryo Transfer Technology
tiectro-luminescent	EURATOM: European Atomic Community
acaduc intellidetice	EUTELSAT: European Telecommunications
Enzyme Linked Immuno-Sorbent As-	Satellite
ster. Sy ster.	EVA: Economic Value Added

	covernment to citizens any France,
NOWLEDGE	COVERNMENT-to-Citizens Covernment-to-Citizens Covernment-to-Citizens Covernment-to-Citizens
NOWLE SECOND OF the environment ic valuation of the environment	carenos, carenos, carenos
tuation of the environ	G7: Group and Called sing Prac-
nic valuation of the valuation of the valuation of the value of the va	
video Reculture Organisa Asker	plus Russia Accepted Autri-
nic valuation of the valuation of the valuation of the value of the va	G7: Group of Seventary and Canada) Italy, lapan and Canada) Italy, lapan and Canada Plus Russia Plus Russ
Average Quantity	tices hal Alliance for the
Average Que on or Bureau of Investigation or all Bureau of Investigation	CAIN 10 Test "
al Bureau of III.	tion wate Aptitude 1
eral Bureau nge Benefit Tax nge Braeder Test Reactor	CATE: Graduate
eral building and peral building	rCoring GATS: General Agreement on Trade and Ser GATS: Ceneral Agreement of Vaccines at
Fast of Wire of India; Fertilize	ent Act CAY: Global Alliance for Vaccines al Vices CAVI: Global Alliance programme Riosphere programme
Fly-b)	ant Ac- vices at Alliance to
ood Corport of India ration of India ration Currency Non-Resid	CAVI: Globar ation programme
ration Currency	ion Act immunit bore Biosphere writish Empire
Fly-By-VVIII ood Corporation of India tration of India RA: Foreign Currency Non-Resid	cavi: Global Alliance Gavi: Global Alliance Sation Act Immuni: Sation Immuni: Soliton GBP: Geosphere—Biosphere Programme GBP: Geosphere—Biosphere British Empire GBP: Geosphere—Biosphere Programme GBP: Geosphere—Biosphere Programme GBP: Geosphere—Biosphere Programme GBP: Geosphere—Biosphere Programme GBP: Geosphere—Biosphere Programme GBP: Geosphere—Biosphere Programme GBP: Geosphere—Biosphere Programme
COULTED TOOK	Act Citalia nodily Flor
RA: Foreig Direct Investige Manage	emers of G.B.H.: Crievous coneration Coursement
bl: Fores soinn Exchan Lindian Ci	and annonent not
EMA: Foreign of mon	e d'Echecs GCR: Grey Component Nep GCR: Grey
citter and and	" LEAU. " " (IO) " " CILO!) " " IUIC!"
Commerce Inter-nation	deration (Goral Department of the Clobal Department of the Control of the Contro
EMA: Foreign of This FICCI: Federation of Industry Commerce and Industry FIDE: Federation International Football Fereign and International Football Fereign and International Football Fereign and International Football Fereign and International Football Fereign and International Football Fereign and International Football Fereign and International Fereign	otball Associate Gomes: Gateway E.
eration interior	Ser al Envilor air Mair
d tion) institution	
FII: Foreign insuranteene FIPB: Foreign Investment FIR: First Information Repo FIR: First Information Report FIR: First Information Info	cetts: Outseld engine options the Clobe of Character of C
FIPB: Foreign	notised engine Government issue Information of pro
FIR: First Illion integrated roc	
FIRE. Thre Oplic Line	
FIPB: Foreign FIR: First Information Report FIR: Fully integrated rob FIRE: Fully integrated Link A AG: Fibre optic Link A LC: Foreign Legal Consult Control of the control	Gier Council Management
FM: Frequent Marke	Cut-off Treaty Course
FMC: " Ile Materio	Tess: Clopal Man
FM: Frequency much FMC: Forward Marke FMCT: Fissile Materia FMCT: Fissile Materia	GMD W. Modified Organ
FMCT: Fissile to board fob: free on board	
and free or	System Sy
FOSDIC: Film Op	iters Creenwich product
11170 -0010	ishing Citass Ing Observ
FPD: Flat panel d FPO: Fruit Produ FPO: Fruit Produ	cts Order cts Order the Royal College of Surathe Royal College of Surathe Royal College of Surathe Royal Ceographical Society Che Royal Ceographical Society Che Royal Ceographical Society Che Royal Ceographical Society Che Royal Ceographical Society Che Royal Ceographical Society Che Royal Ceographical Society Che Royal Ceographical Society Che Royal Ceographical Society Che Royal Ceographical Society
£60:	the Royal College of Sur- of the Royal Colleg
FRCP: Fellow	of the not
ŁKr.	Ceodiapine
geons	of the Royal Society of the Royal Society of the Royal Society of the Royal Society GPS: Global Packet Street GPS: Global Packet Street GPS: Global Packet Street GRACE: Ground Rules and G GRACE: G GRACE: Ground Rules and G GRACE: Ground Rules and G GRACE: G G GRACE: G G GRACE: G G GRACE: G G G G G G G G G G G G G
FRGS: Fellow	of the Royal Institute of the Grand Rais
FRS: Fellow	and Television
erii: m	· -forman-
FYI: for you	Generation Or more
3G: Thira	
-	1007

المالك المتناق الما: امتاعة كياثونون المتاوية N: Geo Referenced Area Management IAS: Indian Administrative Service Graduate Record Examination IATA: International Air Transport Association :CerderiessignmentSurgery(SexChange) ibid or ib. ibidem (Latin): in the same ट्रांस्ट E Carten Reach Shipbuilders book or chapter ده قام والموجع المنظ IBM: International Business Machines k Ceclogical Survey of India IBRD: International Bank for Reconstruction LV: Geo-S;nchronous Satellite Launch Veand Development sm: Global System for Mobile Communica-IC: Indian (airlines) ICAO: SP: Generalised System Preference Organisation :ST: Goods and Service Tax **GUI:** Graphical User Interface GVW: Gross Vehicle Weight HAL: Hindustan Aeronautics Limited. HB: Hard Black (Pencil) HBV: Hepatitis-B Virus HDML: Hyper Devices Mark-up Language HF: High Frequency HFD: High Frequency Doppler HIV: Human Immunodeficiency Virus HMI: Himalayan Mountaineering Institute HMV: His Master's Voice, Heavy Motor Vehicle tion Hon: honourable, Honorary hp: horse power HRPT: High Resolution Picture Transmission **HSD:** High Speed Diesel HSRRSS: High Spatial Resolution Remote iensing Satellite : High Tension [ML: Hyper Text Markup Language TR: High Temperature Reactor ttp: Hypertext Transfer Protocol IUDCO: Housing and Urban Development Ccrp. HV: High Voltage HVAC: Heating, Ventilating and Air Conditioning **HVNET:** High Speed VSAT Network Lea: id est (that is) M: Indian Airlines IAKAS: Indian Audit and Accounts Services the classical target and the con-IAAI: International Airport Authority of India

International Civil Aviation ICAR: Indian Council of Agricultural Research ICBM: Inter-Continental Ballistic Missile ICCR: Indian Council for Cultural Relations ICJ: International Court of Justice ICMR: Indian Council of Medical Research ICPD: International Conference on Population and Development ICRA: Investment Information and Cracin Rating Agency of India ICRISAT: International Crops Research 'autotute for Semi Arid Tropics ICSE: Indian Certificate of Secondary Education ICSI: Intra-Cytoplasmic Spent infection ICU: Intensive Care Unit ICWA: Indian Council of Work files ICWAI: Institute of Cost and Author Account tants of incia IDA: International Development Agents IDBI: Industral Develorment State 12 - 12 IDE Integrated Device Executive IDF: irdie Development ----IEEE ACTIVATE OF EASTER AND EASTER. EGITE Testing System IES: Investor Entractor Entractor comment IEACE INTERPEDICIES FLAG OF MEMORIAL A وسيوسهر تربيع بيعث THE TOLDER THE CAMBRICATION OF THE أندازي والمتاسين والمتاسط المتابية

ig: idem guod (the same as) ment Research IRA: Irish Republican Army IGNOU: Indira Gandhi National Open Uni-IRBM: Intermediate Range Ballistic Missile versity IRC: International Red Cross IGY: International Geophysical Year IIMC: Indian Institute of Mass Communica-IRDP: Integrated Rural Development tion Programme IIPA: Indian Institute of Public Administra-IRE: Indian Rare Earth Ltd. IREDA: Indian Renewable Energy Develoption IISCO: Indian Iron and Steel Company ment Agency IISS: International Institute of Strategic Stud-IRRI: International Rice Research Institute IRS: Indian Revenue Service ies ISBN: International Standard Book Number IIT: Indian Institute of Technology ISC: Indian School Certificate ILA: Indian Library Association ILO: International Labour Organisation ISDN: Integrated Services Digital Network IMAP: Internet Mail Access Protocol ISI: Indian Standards Institution, Inter Ser-IMCO: Inter-government Maritime Consulvices Intelligence tations Organisation ISKCON: International Society for Krishna IMEWS: Integrated Missile Early Warning Sat-Consciousness ellites ISO: International Standards Organisation IMF: International Monetary Fund ISRO: Indian Space Research Organisation in cognito: in disquise ISSN: International Standard Serial Number INA: Indian National Army IST: Indian Standard Time INDIPEX: Indian International Philatelic Ex-ITA: Information Technology Agreement hibition · ITBP: Indo-Tibetan Border Police infra dig infra dignitatum (below status) ITes: Information Technology enabled services I.N.R.I.: lesus Nazarenus Rex Iudaeorum ITI: Indian Telephone Industries; Industrial (Jesus of Nazareth, King of the Jews) Training Institute INS: Indian Newspaper Society ITU: International Telecommunication Union INSAT: Indian National Satellite IUCAA: International University Centre for INTACH: Indian National Trust for Art and Astronomy and Astrophysics Cultural Heritage **IUCD:** Intra-Uterine Contraceptive Device INTELSAT: International Telecommunication IUI: Intrauterine Insemination Satellite IVF: In-Vitro Fertilisation INTUC: Indian National Trade Union Con-IVM: In-vitro Maturation gress I-R: Infra Red IOC: Indian Oil Corporation JCO: Junior Commissioned Officer 10U: I Owe You JEE: Joint Entrance Examination IP: Internet Protocol JIPMER: Jawaharlal Nehru Institute of Post-IPC: Indian Penal Code graduate Medical Education and Research IPCL: Indian Petro-Chemicals Corporation JNCASR: Jawaharlal Nehru Centre for Ad-Ltd vanced Scientific Research IPI: International Press Institute IP: lustice of Peace IPO: Initial Public Offering JPEG: Joint Photographic Expert Group Manorama Yearbook 2007

IGF: India Growth Fund

IGIDR: Indira Gandhi Institute of Develop-

IPS: Indian Police Service: Inter Press Service

1Q: Intelligence Quotient

MBA: Master of Business Administration MBBS: Bachelor of Medicine and Bachelor of KFC: Kentucky Fried Chicken KG: Knight of the Garter, Kindergarten KISCO: Kudremukh Iron and Steel Company Surgery MbPT: Mumbai Port Trust KKK: Ku Klux Klan (U S.secret society-Anti-MCC: Marylebone Cricket Club MCF: Master Control Facility (of ISRO) -Negro, Anti-Jewish) KMT: Kuomintang (Chinese National Party) Bhopal KRC: Konkan Railway Corporation MCI: Medical Council of India MCLR: Medium Capacity Long Range KRL: Kochi Refineries Ltd. MDA: market development assistance **KYC:** Know Your Customer Kymco: Kwang Yang Motor Company (S. MFN: Most Favoured Nation MICR: Magnetic ink character recognition Korea) LASER: Light Amplification by Stimulated MIDI: Musical Instrument Digital Interface MIFOR: Mumbai Inter-Bank Forward Offer **Emission of Radiation** LASIK: Laser in situ Kerato-mileusis Rate MIPS: Million Instructions per Second LCA: Light Combat Aircraft LCD: Liquid Crystal Display, Least Common MIRU: Million Independently targeted re-Denominator entry Vehicle MISA: Maintenance of Internal Security Act LCM: Lowest Common Multiple LDL: Low-Density Lipoprotein (Cholesterol) Misc.: Miscellaneous LERMS: Liberalised Exchange Rate Manage-MIT: Massachusetts Institute of Technology, US; ment Scheme Master Instruction Tape MKS: Metre Kilogram Second (System) LeT: Lashkar-e-Taiba LIC: Life Insurance Corporation (of India) MI: Military Intelligence LIPS: Language Independent Programme MLA: Member of Legislative Assembly Subtitles MIle: Mademoiselle (Miss) LIS: Land Information System MLP: multiple line printer LL.B .: Bachelor of Laws Mme: Madame (Mrs.) LMC: Large Megallanic Cloud MMTC: Minerals and Metals Trading Corpo Loc.cit: Loco citato (at the place quoted) ration LPG: Liquefied Petroleum Gas MMX: Matrix Manipulation Extension; Mul LSD: Lysergic acid di-ethylamide timedia extension Lt.Col .: Lieutenant Colonel MNC: Multi-National Corporation LTTE: Liberation Tigers of Tamil Elam MODEM: modulator demodulator M: Monsieur (Mister) **MODVAT:** Modified Value Added Tax M.A.: Magisiter Artium (Master of Arts) MOR: middle-of-the-Road M.D: Doctor of Medicine MOSFET: Metal Oxide Semiconductor Fie M1: Money supply with public Effect Transistor M3: Aggregate monetary resources MOU: Memorandum of Understanding MA: Milliampere MP: Member of Parliament; Madhya Prade MAD: Mutually Assured Destruction MPEG: Motion Picture Experts Group MAIT: Manufacturers Association for Informph: miles per hour mation Technology MPLAD: Member of Parliament Local A MARS: Mumbai Amateur Radio Society MASER: Microwave Amplification by Stimu-Development **Litted Emission of Radiation** MRA: Moral Re-Armament

MRCP: Member of the Royal College of **Physicians** MRTPC: Monopolies and Restrictive Trade Practices Commission MS/MSS: Manuscript/ Manuscripts MSCI: Morgan Stanley Capital International MT: Metric Ton MTBE: methyl-tertiary-butyl-ether MTCR: Missile Technology Control Regime MVC: Maha Vir Chakra NAA: National Airports Authority NAAC: National Assessment and Accreditation Council NABARD: National Bank for Agriculture and Rural Development NAC: National Advisory Council NAFED: National Agricultural Co-operative Marketing Federation NAFTA: North American Free Trade Agreement NALCO: National Aluminium Company Ltd. NASA: National Aeronautics and Space Administration **NASDAQ:** National Association of Securities **Dealers Automated Quotation** NASSCOM: National Association of Software and Service Companies NATO: North Atlantic Treaty Organisation NATPAC: National Transportation Planning and Research Centre NAV: Net Asset Value NB: nota bene (note well) **NBE:** National Board of Examination **NBOT:**National Board of Trade NBW: Non-Bailable Warrant NBWL: National Board on Wild Life NC: Network Computer NCAER: National Council of Applied Economic Research NCC: National Cadet Corps NCERT: National Council of Educational Research and Training

Gazett-ed Officer NHPC: National Hydroelectric Power Corporation NICD: National Institute of Communicable Diseases NIMHANS: National Institute of Mental Health And Neuro Sciences NIPER: National Institute of Pharmaceutical Education and Research NISCAIR: National Institute for Science Communication and Information Resources NIV: National Institute of Virology NKC: National Knowledge Commission NLC: Neyveli Lignite Corporation NMDC: National Mineral Development Corporation NMITLI: New Millennium Indian Technology Leadership Initiative NMR: Nuclear Magnetic Resonance NMS: Network Management System NOC: No Objection Certificate **NPA:** Non-performing Assets NPC: National Productivity Council NPCIL: Nuclear Power Corporation of India Ltd. NPEEE: National Programme for Earthquake **Engineering Education** NPL: National Physical Laboratory; Non-performing Loans NPT: Nuclear Non-Proliferation Treaty NRF: National Renewal Fund NRS: National Readership Survey N&S: Network and Systems **NSA:** National Security Advisor NSEI: National Stock Exchange of India

Applications; National Computer Security

NDDB: National Dairy Development Board

NEXARD: Next Generation Radar (Dopple)

NGO: Non-Government Organisation: Non-

NDES: New Data Encryption Standard

NDA: National Defence Academy
NDC: National Development Council

Association

radar)

NCSA: National Centre for Supercomputing

NCO: Non-Commissioned Officer

NCI: Nursing Council of India

NSG: Nuclear Suppliers Group	PAT: Probt After Tax
NSP: Native Signal Processing	PAYE: pay as you earn
NSUI: National Students Union of India	PC: post card; Personal Computer
NSTM: Nano Science and Technology Mis-	p.c.: per cent
sion	PCA: Professional Chess Association
NTPC: National Thermal Power Corporation	PCM: Pulse code modulation
NTSC: National Television System Commission	PCMCIA: Personal Computer Memory Card International Association
NTSE: National Talent Search Examination	PDA: Preventive Detention Act, Personal Dagi-
O & M: Organisation & Methods	tal Assistant
OAPEC: Organisation of Arab Petroleum Ex-	PDS: Public Distribution System
porting Countries	PEARL: Package for Effective Administration
OAS: Organisation of American States	of Registered Laws
OAU: Organisation of African Unity (now AU)	PFRDA: Pension Fund Regulatory and De-
OBC: Other Backward Classes	velopment Authority
OBU: Offshore Banking Unit	PEC: Project and Equipment Corporation
OCD: Obsessive Compulsive Disorder	PEN: (International club of) Poets, Play-
OCR: Optical Character Recognition	wrights, Essayists, Editors and Novelists
ODA: Overseas Development Administration	PERT: Project Evaluation and Review Technique
ODI: Open Data Link Interface	PETA: People for Ethical Treatment of Ani-
OECD: Organisation for Economic Co-op-	mals
eration and Development	PGIMER: Post Graduate Institute of Medical
OGL: Open General Licence	Education and Research
OIC: Organisation of Islamic Conference	PGM-FI: Programmed Fuel Injection
OIGS: On India Government Service	PGP: Pretty Good Privacy
OK: All Correct (slang)	Ph.D.: Doctor of Philosophy (Philosophiae
OLE: Object Linking and Embedding	Doctor)
ONGC: Oil and Natural Gas Corporation	PHDCCI: Punjab, Haryana, Delhi Chamber
OOP: Object Oriented Programme	of Commerce and Industries
Op. cit.: Opero citato (in the work cited)	PIB: Press Information Bureau
OPCW: Organisation for the Prohibition of	PIGS: Pre-implantation Genetic Screening
Chemical Weapons	PII: Press Institute of India
OPEC: Organisation of Petroleum Exporting	PIL: Public Interest Litigation
Countries	PIM: Personal Information Management
OPV: Oral Polio Vaccine	PIN: Postal Index Number
ORT: Oral Rehyderation Therapy	Pixel: Picture element
OSCAR: Orbiting Satellite Carrying	PLAB: Professional and Linguistic Assess-
Amateur Radio	ment Board
OXFAM: Oxford Committee for Famine Re-	PM: Post Mendiem; Prime Minister
lief	PMG: Post Master General
Oxon: Oxoniensis (of Oxford University)	PMUPEP: Prime Minister's Urban Powerty
PAC: Public Accounts committee	Eradication Programme
PAL: Phase Alternation Line	PNR: Passenger Name Receider
PAN: Permanent Account Number	POTA: Prevention of Terroman Act
PAR: Performance Appraisal Report	POW: Prisence of Wat

Applications; National Computer Security MRCP: Member of the Royal College of Association Physicians NDA: National Defence Academy MRTPC: Monopolies and Restrictive Trade NDC: National Development Council Practices Commission NDDB: National Dairy Development Board MS/MSS: Manuscript/ Manuscripts MSCI: Morgan Stanley Capital International NDES: New Data Encryption Standard **NEOCONS:** Neo-Conservatives MT: Metric Ton **NEXARD:** Next Generation Radar (Doppler MTBE: methyl-tertiary-butyl-ether MTCR: Missile Technology Control Regime radar) MVC: Maha Vir Chakra NGO: Non-Government Organisation; Non-NAA: National Airports Authority Gazett-ed Officer NHPC: National Hydroelectric Power Cor-NAAC: National Assessment and Accreditation Council poration NABARD: National Bank for Agriculture and NICD: National Institute of Communicable Diseases Rural Development NIMHANS: National Institute of Mental NAC: National Advisory Council Health And Neuro Sciences NAFED: National Agricultural Co-operative NIPER: National Institute of Pharmaceutical Marketing Federation NAFTA: North American Free Trade Agree-Education and Research NISCAIR: National Institute for Science Comment NALCO: National Aluminium Company Ltd. munication and Information Resources NASA: National Aeronautics and Space Ad-NIV: National Institute of Virology ministration NKC: National Knowledge Commission NASDAQ: National Association of Securities NLC: Neyveli Lignite Corporation Dealers Automated Quotation NMDC: National Mineral Development NASSCOM: National Association of Software Corporation and Service Companies NMITLI: New Millennium Indian Technology NATO: North Atlantic Treaty Organisation Leadership Initiative NATPAC: National Transportation Planning NMR: Nuclear Magnetic Resonance and Research Centre NMS: Network Management System NAV: Net Asset Value NOC: No Objection Certificate NB: nota bene (note well) NPA: Non-performing Assets NBE: National Board of Examination NPC: National Productivity Council **NBOT:**National Board of Trade NPCIL: Nuclear Power Corporation of India NBW: Non-Bailable Warrant Ltd. NBWL: National Board on Wild Life NPEEE:National Programme for Earthquake NC: Network Computer **Engineering Education** NCAER: National Council of Applied Eco-NPL: National Physical Laboratory; Non-pernomic Research forming Loans NCC: National Cadet Corps NPT: Nuclear Non-Proliferation Treaty NCERT: National Council of Educational Re-NRF: National Renewal Fund search and Training NRS: National Readership Survey NCI: Nursing Council of India N&S: Network and Systems NCO: Non-Commissioned Officer NSA: National Security Advisor NCSA: National Centre for Supercomputing NSEI: National Stock Exchange of India

NSG: Nuclear Suppliers Group PAT: Profit After Tax **NSP:** Native Signal Processing PAYE: pay as you earn NSUI: National Students Union of India PC: post card; Personal Computer NSTM: Nano Science and Technology Misp.c.: per cent sion PCA: Professional Chess Association NTPC: National Thermal Power Corporation PCM: Pulse code modulation NTSC: National Television System Commis-PCMCIA: Personal Computer Memory Card sion International Association NTSE: National Talent Search Examination PDA: Preventive Detention Act, Personal Digi-O & M: Organisation & Methods tal Assistant OAPEC: Organisation of Arab Petroleum Ex-PDS: Public Distribution System porting Countries PEARL: Package for Effective Administration **OAS:** Organisation of American States of Registered Laws OAU: Organisation of African Unity (now AU) PFRDA: Pension Fund Regulatory and Development Authority **OBC:** Other Backward Classes **OBU:** Offshore Banking Unit PEC: Project and Equipment Corporation PEN: (International club of) Poets, Play-**OCD:** Obsessive Compulsive Disorder **OCR:** Optical Character Recognition wrights, Essayists, Editors and Novelists **ODA:** Overseas Development Administration PERT: Project Evaluation and Review Technique **ODI:** Open Data Link Interface PETA: People for Ethical Treatment of Ane-OECD: Organisation for Economic Co-opmals PGIMER: Post Graduate Institute of Medical eration and Development **OGL:** Open General Licence Education and Research PGM-FI: Programmed Fuel Injection OIC: Organisation of Islamic Conference **PGP:** Pretty Good Privacy **OIGS:** On India Government Service Ph.D.: Doctor of Philosophy (Philosophiae OK: All Correct (slang) **OLE:** Object Linking and Embedding Doctor) ONGC: Oil and Natural Gas Corporation PHDCCI: Punjab, Haryana, Delhi Chamber of Commerce and Industries **OOP:** Object Oriented Programme PIB: Press Information Bureau Op. cit.: Opero citato (in the work cited) PIGS: Pre-implantation Genetic Screening OPCW: Organisation for the Prohibition of PII: Press Institute of India Chemical Weapons PIL: Public Interest Litigation **OPEC:** Organisation of Petroleum Exporting PIM: Personal Information Management Countries PIN: Postal Index Number **OPV:** Oral Polio Vaccine Pixel: Picture element **ORT:** Oral Rehyderation Therapy PLAB: Professional and Linguistic Assess-OSCAR: Orbiting Satellite Carrying ment Board Amateur Radio PM: Post Mendiem; Prime Minister **OXFAM:** Oxford Committee for Famine Re-PMG: Post Master General lief PATUPEP: Prime Minister's Urban Poverty Oxon: Oxoniensis (of Oxford University) **Eradication Programme** PAC: Public Accounts committee PNR: Passenger Name Recorder PAL: Phase Alternation Line POTA: Prevention of Tenenum Act PAN: Permanent Account Number POW: Prisoner of War PAR: Performance Appraisal Report

PPP: Purchasing power parity: Point-to-point Protocol PPPP: Public Private Panchayat Partnership PPS: Post Post Scriptum (additional post script) Pro-tem: Pro tempore (for the time being) PROLOG: Programming logic PS: Post Scriptum (written after); Private Secretary PSLV: Polar Satellite Launch Vehicle PSN: Processor Serial Number PTA: Parent-Teacher Association PTI: Press Trust of India PTO: Please Turn Over PVC: Poly vinyl Chloride: Param Vir Chakra PWD: Public Works Department; Persons with Disability PZD: Partial Zonal Drilling QED: Quod Erat Demonstrandum [which was to be demonstrated or proved] Q Queue: ged Quod Erat Demon-strandum (that which was to be demonstrated) **OR:** Ouantitative restriction **QSQ:** Quasi-stellar object qv: quod vide ((which see) R&D: Research and Development R&M: Renovation and Modernisation RABMN: Remote Area Business Message Network RAC: Reservation Against Cancellation RADAR: Radio Detecting and Ranging RAM: Random Access Memory RAPD: Random Amplified Polymorphic Deoxyribonucleic Acid RAW: Research & Analysis Wing RBI: Reserve Bank of India RCC: Reinforced Cement Concrete RD: refer to drawer RDX: Research Department Explosive (Cyclotrim-ethylin Trinitrate) **REM:** Rapid Eye Movement RFC: Request for Comments RH: Rainwater Harvest RIP: Requiescat in pace (May he or she rest in peace); Raster Image Processor

RISC: Reduced instruction-set computing PITES Rail India Technical & Economic Services RLO: Returned Letters Office RMS: Railway Mail Service RNA: Ribonucleic acid ROM: Read Only Memory RONW: return on net worth RPM: Revolutions Per Minute RSE: Renewable Source of Energy RSS: Rashtriya Swayam Sewak Sangh R.S.V.P./R.s.v.p.: Repondez S'il Vous Plait . (Reply if you please) RTG: Radio-isotope Thermoelectric Generator RTI: Right to Information SAA: South African Airways SACLANT: Supreme Allied Commander Atlantic SASE: Self-addressed stamp-ed envelope 5 &T: Science and Technology SAC: Space Application Centre SAIL: Steel Authority of India Limited . SAM: Surface to Air Missile SAPTA: South Asian Preferential Trade Agreement SARS: Severe Acute Respiratory Syndrome **SASER:** Sound Amplification by Stimulated **Emission of Radiation** SAT: Scholastic Aptitude Test SAVE: SAARC Audio-Visual Exchange SCABA: Self contained Air Breathing Apparatus SCI: Shipping Corporation of India SCM: Supply Chain Management SCSI: Small Computer Systems Interface SCUBA: Self-contained Underwater Breathing Apparatus SDR: Special Drawing Rights SEANWFZ: South East Asia Nuclear Weapons Free Zone SEBI: Securities and Exchange Board of India SENSEX: Sensitivity Index (of Share Price) SET: Secure Electronic Transmission

SEZ: Special Economic Zone

SGPC: Siromani Gurudwara Prabandak Com-T & D: Transmission & Distribution mittee TA: Terntorial Army, Travelling Allowance SHAPE: Supreme Head-quarters Allied Pow-TACAMO: take charge and move over ers, Europe TADA: Terrorist and Disruptive Activities SHG: Self Help Group (Prevention) Act SIDS: Sudden Infant Death Syndrome (Crib TAFE: Technical And Further Education (in Death) Australia) SIFT: Sperm Intra-Fallopian Transfer TAFE: Tractor and Farm Equipment Etd. SIM: Subscriber Information Module TAFTA: Trans-Atlantic free Trade Agree-SIP: Systematic Investment Planning ment SITA: Suppression of Immoral Traffic Act TAPS: Tarapur Atomic Power Station SITE: Satellite Instructional Television Ex-TB: tuberculosis periment TBSE: Technology Bureau for Small Enter-SLBM: Submarine Launched Ballistic Missile prise SLFP: Sri Lanka Freedom Party TCP: Transfer Call Protocol, Transmission SLR: Statutory Liquidity Ratio; Single Lens Control Protocol Reflex TDA: Trade Development Authority TDMA: Time Division Multiple Access SLV: Satellite Launch Vehicle TELCO: Tata Engineering and Locomotive SMTP: Simple Mail Transfer Protocol SMS: Short Message Service Company TEQIP: Technical Education Quality Im-**SNA:** System Network Architecture **SOHO:** Small Office Home Office provement Programme TERLS: Thumba Equatorial Rocket Launch-SOLAS: Safety of Life at Sea SPCA: Society for Prevention of Cruelty to ing Station TFT: Thin-Film Transistor Animals TFYP: Tenth Five Year Plan **SPECT:** Single Photon Emission Computed TIFAC: Technology and Information Fore-Tomo-graphy casting and Assessment Council SPTM: Self-Printing Ticketing Machine TIFR: Tata Institute of Fundamental Research STAR(TV): Satellite Television Asian Region TIPS: Technology Information Pilot System Ltd. TIPTOP: Tape input-tape output **START:** Strategic Arms Reduction Talks TISCO: Tata Iron and Steel Company **STC:** State Trading Corporation TLC: Total Literacy Campaign STD: Subscriber Trunk Dialling; Sexually TMO: Telegraphic Money Order Transmitted Diseases TNG: The Next Ceneration STP: Software Technology Park TNT: Trinitro-taluene STQC: Standardisation Testing and Quality TOEFL: Test of English as a fore ye Lan-Control quage SUNFED: Special United Nations Fund for TPM: Total Productivity Mainter ance **Economic Development** TQM: Total Quality Management **SUV:** sports utility vehicle TRACT: Transportable Remote Area **SVP:** Saturated Vapour Pressure Communications Terrical Swift: Secure worldwide immediate fund TRIMS: Trade Related line cricies transfer TRIPS: Trade Related & te lecteu. SWOT: Strengths, Weaknesses, Opportuni-K. anta Les and Threats

TRYSEM: Training of Rural Youth for Selfemployment TSE: Test of Spoken Eng-lish TTC: Telemetry, Tracking & Command TTE: Travelling Ticket Examiner TWE: Test of Written English TWT: Two Way Time **UAV:** Unmanned Aerial Vehicle UCI: Universal Childhood Immunisation UCIL: Uranium Corporation of India Ltd. **UCLA:** University of California Los Angeles

UCR: Under Colour Removal

UGC: University Grants Commission

UHF: Ultra High Frequency **ULEV:** Ultra Low Emission Vehicle **ULFA:** United Liberation Front of Asom UNCED: UN Conference on Environment & Development UNCIP: United Nations Commission for India & Pakistan **UNCLOS:** United Nation Convention on the Law of the Sea UNCSTD: United Nations Conference on Science and Technology for Development UNCTAD: United Nations Conference on Trade and Development UNEP: United Nations Environment

entific and Cultural Organi-sation **UNFPA:** United nations Population Fund UNI: United News of India UNICEF: United Nations International Children's Emergency Fund (now, 'United Nations Children's Fund') UNIDO: United Nations Industrial Development Organisation

UNESCO: United Nations Educational, Sci-

United Nations Development Fund for Women UNITA: Union for the Total Independence of Angola UNMOGIP: United Nations Military Ob-

server Group in India and Pakistan **UNOPS:** UN Office for Project Services UNPROFOR: UN Protection Force

tation Administration **UNU:** United Nations University **UPA:** United Progressive Alliance

UPS: Uninterrupted Power Supply UPSC: Union Public Service Commission URL: Uniform Resource Locator USAID: United States Agency for Interna-

UNRRA: United Nations Relief and Rehabili-

tional Development USO: Udaipur Solar Observatory USP: Unique selling proposition **VABAL:** Value Based Advance Licensing

VAT: Value Added Tax VATIS: Value Added Technology Information Service VBT: Vainu Bappu Telescope VC: Vice-Chancellor, Victoria Cross; Ven-

Scheme

VAN: Virtual Area Network

ture Capital VCR: Video Cassette Recorder VD: Venereal Disease (see STD) VDIS: Voluntary Disclosure of

VIRUS: Vital Information Resources Under

VESA: Video Electronics Standard Association VHRR: Very High Resolution Radiometer VHS: Video Home System VIP: Very Important Person

Sieae VPI: Virtual Private Internet VPP: Value Payable Post

VRML: Virtual Reality Modelling Language VRS: Voluntary Retirement Scheme **VSAT:** Very Small Aperture Terminal

VSSC: Vikram Sarabhai Space Centre

VTEC: Variable Valve Timing and Lift Electronic Control VTR: Video Tape Recorder

WAIS: Wide Area Information Service WAN: World Association of Newspapers

WARDEC: Wargaming Development Cen-

WAY: World ACouncil of Churches WCC: World Council of Churches WDM: World Debt Market

Programme

UNIFEM:

WEF: World Economic Forum

WFTU: World Federation of Trade Unions
WFUL: World Federation of Trade Unions

WFUL: World Federation of Trade Ur
WG: Working Group

WGPA: Weighted Grade Point Average

WHO: World Health Organisation

WIMP: Weakly Interacting Massive Particle; Windows, Icons, Menus, Pointers

windows, icons, Menus, Pointers

WMD: Weapons of Mass Destruction

WMO: World Meteorological Organisation

WPI: Wholesale Price Index WTI: World Tribunal on Iraq

WTO: World Trade Orga-nisation

WTP: willingness-to-pay

WWF: World Wildlife Fund, now renamed Worldwide Fund for Nature

WWW: World Wide Web

WYSIWYG: What you see is what you get

XBT: Expandable Bathy Thermographic

Xmas: Christmas
XML: Extensible Mark-up Language

XPD: X-Ray Photoelectron Diffraction
YMCA: Young Men's Christian Association

YWCA: Young Women's Christian Association

ZIFT: Zygote Intrafallopian Transfer

ZIP: Zone Improvement Flan

ZOPFAN: Zone of Peace, Freedom and Neutrality **9/11:** September Eleven

7/7: July Seven

Ecolis: Audiors and Their Nationalities

A Brief History of Time: Stephen Hawking (Br)
A China Passage: John Kenneth Galbraith

Accidental Death of an Anarchist: Dario Fo (lt)

A Call to Honour: Jaswant Singh (Ind)
A Clockwork Orange: Anthony Burgess (Br)

A Critique of Pure Reason: Immanuel Kant (Ger)

A Doll's House: Ibsen (Nor)

A Farewell to Arms: Ernest Hemingway (US)

A Fine Balance: Robinton Mistry (Ind- Can)
A Handful of Dust: Evelyn Wayob (Br)

A Handful of Dust: Evelyn Waugh (Br)

A Hearbraking Work of Staggering: Genius-Dave Eggers (US)

A House for Mr. Biswas: V.S.Naipaul (Ind-Br) A Million Mutinies Now: V.S. Naipaul (Ind-Br)

A Midsummer Night's Dream: William Shakespeare (Br)

A Passage to England: Nirad C. Choudhuri (Ind-Br)

A Passage to India: E.M. Forster (Br)

A Prisoner's Scrapbook: LK, Advani (Ind)

A Sense of Time: H.S. Vatsyayan (Ind)

A Strange and Sublime Address: Amit Chaudhary (Ind)

A Streetcar Named Desire: Tennesse Williams (US) A Study of History: Arnold J. Toynbee (Br)

A Suitable Boy: Vikram Seth (Ind-US)

A Tale of Two Cities: Charles Dickens (Br)
A Thousand Days: Arthur M. Schlesinger

(US)
A Thousand Suns: Dominique Lapierre (Fr)

A Thousand Suns: Dominique Lapierre (F A Village by the Sca: Anita Desai (Ind-US)

A Voice for Freedom: Nayantara Selxyal (Ind)

A Week with Gandhi: Louis Fischer (Fr)

A Woman's Life: Guy de Maupassant (Fr)

Absolute Friends: John le Carre (Br)
Absolute Power: David Baktacci (US)

Adam Bede: George Elot (Br)

Adonis: P.B. Sheay (Br)

Adventures of Tom Sawyer : Mark Twain (US)

Alternoon Roag: Amit Chaudhan (Ind)

Agni Veena: Kari Nacrul Islam (Ind)

Akbarnama: Abdul Faral (Ind)

Alice in Wonderland: Lewis Carted (81) All Quiet on the Western Front: Exactles a

Remarque (Ger

All the King's Men

All the President's Men: Carl Bernstein (US) & Rob Woodward (US) All Things Bright and Beautiful: James Hemot

All's Well that Ends Well: William Shakespeare (Br)

Amar Kosh: Amar Singh (Ind)

An American Dilemma: Gunnar Myrdal (Swe) An American Tragedy: Theodore Dreiser (US) An Area of Darkness: V.S. Naipaul (Ind-Br)

An Autobiography: Jawahadal Nehru (Ind) An Equal Music: Vikram Seth (Ind-US)

An Idealist View of Life: Dr. S. Radnakrishnan (Ind)

Anandmath: Bankim Chandra Chatterjee (Ind) And Quiet Flows the Don: Mikhail Sholokhov (Br)

Angels & Demons: Dan Brown (US) Angels in America: Tony Kushner (US)

Animal Farm: George Orwell (Br) Anna Karenina:LeoTolstov (Rus)

Antony and Cleopatra: William Shakespeare

Ape and Essence: Aldous Huxley (Br) Around the World in Eighty Days: Jules Verne

Arrowsmith: Sinclair Lewis (US) As You Like It: W. Shakespeare (Br)

Asia and Western Dominance; K. M. Panikkar (Ind)

Asion Droma: Gunnar Myrdal (Swe) Atonement: Ian Mcewan (Br)

August 1914: Alexander Solzhenitsyn (Rus)

Aunt Julia and the Scriptwriter: Mario Vargas Llosa (Per)

Autobiography of an Unknown Indian: Nirad C. Choudhuri (Ind-Br)

Babbit: Sinclair Lewis (US)

Back to Methuselah: George Bernard Shaw (Br) Bandicoot Run: Manohar Malgonkar (Ind) Beginning of the Beginning: Bhagwan Sri Raineesh (Ind)

Being Digital: Nicholas Negroponte (US)

Beloved: Toni Morrison (US) Ben Hur: Lewis Wallace (US) Beyond the Horizon: Eugene O'Neill (US) Bharat Bharati: Maithili Saran Gupta (Ind) Biographia Literaria: Samuel Taylor Coleridge Black Holes and Baby Universes: Stephen Hawking (Br) Bliss was it in that Dawn: Minoo Masani (Ind) Blink: Malcolm Gladwell (Ind-Br) Blood, brain and beer: David Ogilvy (Br) Bonfire of the Vanities: Tom Wolfe (US) Born Free: lov Adamson (Cze-Br) Bowling For Cloumbine; Stupid White Men; Roger & Me: Michael Moore (US) Brave New World: Aldous Huxley (Br) Bread, Beauty and Revolution: Khwaia Ahmad Abbas (Ind) Breakfast at Tiffany's: Truman Capote (US) Breakthrough: Gen. Moshe Dayan (Isr) Brick Lane: Monica Ali (Ban-Br) Brothers Karamazov: Feodor Dostoyevsky (Rus) Bubble, The: Mulk Rai Anand (Ind)

Cadillac Desert: Marc Reisner (US) Caesar and Cleopatra: George Bernard Shaw

Business @ the Speed of Thought: Bill Gates (US)

Candida: George Bernard Shaw (Ir) Candide: Voltaire (Fr)

Catch-22: Joseph Heller (US)

Catcher in the Rye: J.D. Salinger (US) Centennial: James A.

Byzantium: W.B. Yeats (Ir)

Michener (US) Checkmate: Malorie

Blackman (UK) Chemmeen: Thakazhi Siva-sankara Pillai

Cherry Orchard: Anton

Chekov (Rus)

Chidambara: Sumitranandan Pant (Ind)

Nationalities: Alg: Algerian; Austral: Australian; Aus: Austrian; Ban: Bangladeshi; Br: British; Bra: Brazilian; Can: Canadian; Ch: Chinese; Chi: Chilean; Col: Columbian; Cze: Czech; Dan: Danish; Fr: French; Ger: German; GK: Greek; Hun: Hungarian; Ind: Indian; Ir: Irish; Ira: Iranian; Isr: Israel; It: Italian; Jap: Japanese; Mor: Moroccan; Nig: Nigerian; Nor: Norwegian; Pak: Pakistani; Per: Peruvian; Pol: Polish; Rus: Russian; Scot: Scottish; Spa: Spanish; SA: South African; Swe: Swedish; Swi: Swiss; Tib: Tibetan; Tri: Trinidadian; US: American

Childe Harold's Pilgrimage: Lord Byron (Br) Distant Drums: Manchar Malgorikar (Ind) Chithirappaavai: P.V. Akılandam (Ind) Divine Comedy: Dante Aughleri (II) Chitra: Rabindra Nath Tagore (Ind) Divine Life: Swami Shananda (Ind) Choma's Drum: K. Shivaram Karanth (Ind) Doctor Zhwago: Boris Pasternak (Rus) Chronicle of a Death Foretold: Gabriel Garcia Doctor's Dilemma: George Bernard Shaw (Ir) Marquez (Col) Don Juan: Lord Byron (Br) Circle of Reason: Amitav Ghosh (Ind) Don Quixote: Miguel de Cervantes (Spa) Dr. Jekylland Mr. Hyde: Robert Louis Stevenson Circles of Silence: Preeti Singh (Ind) City of Joy: Dominique Lapierre (Fr) (Scot) Durgesh Nandini: Bankim Chandra Chatterire City of Djinns: William Dalrymple (Scot) Comedy of Errors: William Shakespeare (Br) (Ind) Coming of Age in Samoa: Margaret Mead Down Under: Bill Bryson (US) (US) Dust to Dust: Tami Hoaq (US) Common Sense: Thomas Paine (Br-US) Communist Manifesto: Karl Marx (Ger) Earth: Emile Zola (Fr) Confessions: J.J. Rousseau (Swi-Fr) Eats, Shoots & Leaves: Lynne Truss (Br) Elegy written in a Country Churchyard Tho-Confessions of a Lover: Mulk Raj Anand (Ind) Confessions of an English Opium Eater: Thomas Gray (Br) Eminent Victorians: Lytton Strachey (Br) mas De Quincey (Br) Confidential Clerk: T.S. Eliot (US-Br) Emma: Jane Austen (Br) Ends and Means: Aldous Huxley (Br) Conquest of Self: Mahatama Gandhi (Ind) English August: Upamanyu Chatterjee (Ind) Coolie: Mulk Raj Anand (Ind) Count of Monte Cristo: Alexander Dumas (Fr) Essays of Elia: Charles Lamb (Br) Coverly Papers: Joseph Addison (Br) Essays on Gita: Sri Aurobindo Chesh (Ind) Eternal Himalay as: Major H.P.S. Ahluwala (Ind) Creation: Gore Vidal (US) Ethics for the New Millennium the Dalai Crescent Moon: Rabindra Nath Tagore (Ind) Lama (Tib) Crime and Punishment: Feodor Dostoyevsky Expanding Universe: Arthur Stanley Eddington (Rus) (Br) Crisis into Chaos: E.M.S. Namboodiripad (Ind) Cry, the Beloved Country: Alan Paton (SA) Faces of Everest: Major H.P.S. Ahluwalia (Ind) Family Matters: Robinton Mistry (Ind-Can) Dark Horse: Tami Hoag (US) Falling Over Backwards: Arun Shourie (Ind) Darkness at Noon: Arthur Koestler (Hun-Br) Fomily Reunion: T.S. Eliot (US- Br) Darkness Visible: William Styron (US) Far from the Madding Crowd: Thomas Hardy Das Kapital: Karl Marx (Ger) David Copperfield: Charles Dickens (Bri) Farewell the Trumpets: James Moms (Br) Days of Grace: Arthur Ashe (US) & Arnold Farewell to Arms: Ernest Hemingway (US) Rampersad (Tri-US) Father and Sons: Ivan Turgenev (Rus) Death in Venice: Thomas Mann (Ger) Faust: J.W. Von Goethe (Ger) Death of a City: Amrita Pritam (Ind) Final Days, The: BobWoodward (US) and Cart Death of a Salesman: Arthur Miller (US) Bernstein (US) Debacle: Emile Zola (Fr) First Circle: Alexander Solzhenits, n (Rus) Decameron: Giovanni Boccaccio (It) Five Point Someone, What not to Do at 31 Decline and Fall of the Roman Empire: Edward Chetan Bhagat (Ind) Cibbon (Bri) For Whom the Bell Tells Errest herea-gray Descent of Man: Charles Darwin (Bri) Deserted Village: Oliver Goldsmith (Ir-Br) (US) Forsyth Saga: John Colomortis (Et) Devdas: Sharat Chandra Chatterjee (Ind) Fortynine Days: Ameria Diamond Dust: Anita Desai (Ind-US) Frankenstein, Mary Sni D.:cmma of Our Time: Harold Joseph Laski (Br) Freedom at Mianight: L Dip'emacy: Henry Kissinger (US) & Dominque Lapirett Discovery of India: Jawaharlal Nehru (Ind)

French Revolution: Thomas Carlyle (Scot) Friends and Foes: Sheikh Muiibur Rahman (Ban) From Here to Eternity: James Jones (US)

Ganadevata: Tara Shankar Bandopadhyaya (Ind)

Gandhi and Stalin: Louis Fisher (Fr) Gardener: Rabindra Nath Tagore (Ind)

Gatherina Storm: Winston Churchill (Br) Ghasiram Kotwal: Viiav Tendulkar (Ind)

Gitaniali: Rabindra Nath Tagore (Ind) Glimpses of World History: Jawaharlal Nehru



Winston Churchill

Godan: Prem Chand

(lnd)

(Rus)

(Ind) Golden Threshold: Sarojini Naidu (Ind) Gone With The Wind: Margaret Mitchell (US) Good Earth: Pearl S. Buck (US) Good Times, Bad Times: Harold Evans (Br) Goodbye, Mr. Chips: James Hilton (Br) Grammar of Politics: Harold Joseph Laski (Br) Great Expectations: Charles Dickens (Br) Great Gatsby: F. Scott Fitzgerald (US) Growth of the Soil: Knut Hamsun (Nor) Guide: R.K. Narayan (Ind) Gulag Archipelago: Alexander Solzhenitsyn

Gulliver's Travels: Jonathan Swift (Ir) Gypsi Masala: Preethi Nair (Ind)

Half a Life: V S Naipaul (Ind-Br) Hamlet: W. Shakespeare (Br) Harvest: Manjula Padmanabhan (Ind) Harry Potter and the Goblet of Fire: 1.K. Rowling (Br)

Heat and Dust: Ruth Prawer Jhabwala (Ger-Br) Heir Apparent: Dr. Karan Singh (Ind) Heritage: Anthony West (US)

Heroes and Hero Worship: Thomas Carlyle

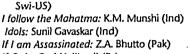
Himaloyan Blunder: Brigadier J.P. Dalvi (Ind) Hindu View of Life: Dr. S. Radhakrishnan (Ind) Hinduism: Nirad C. Choudhuri (Ind-Br) Homage to Catalonia: George Orwell (Br) How To Know God: Deepak Chopra (Ind-US) Hullabaloo in a Guava Orchard: Kiran Desai (Ind)

Hunchback of Notre Dame: Victor Hugo (Fr)

Hungry Stones: Rabindra Nath Tagore (Ind.)

lacocca: Lee lacocca (US)

Ideas and Opinions: Albert Einstein (Ger-



Rabindra Nath Tagore

If Only: Geri Halliwell (Br) Ignited Minds: A.P.I. Abdul Kalam (Ind) In Defence of Globalisation: Jagdish Bhagwati (Ind-US)

In Evil Hour: Gabriel Garcia Marques (Col) In Memoriam: Alfred Lord Tennyson (Br) In Retrospect: The Tragedy and Lessons of Vietnam - McNamara (US) In Search of Gandhi: Richard Attenborough

(Br) India in the New Millennium: Dr. P.C.

India Changes: Taya Zinkin (Fr) India Discovered: John Keay (Br) India Divided: Rajendra Prasad (Ind)

Alexander (Ind)

India: Emerging power: Stephen Philip Cohen India-Another Millennium: Romila Thapar (Ind)

India Unbound: Gurcharan Das (Ind) India of Our Dreams: M.V. Kamath (Ind) India Remembered: Percival & Margaret Spear

India War of Independence: V.D. Savarkar (Ind)

India Wins Freedom: Abul Kalam Azad (Ind) India's Priceless Heritage: N.A. Palkhivala (Ind) Indian Intelligence Unveiled: M.K. Dhar (Ind) Indian Philosophy: Dr. S. Radhakrishanan (Ind) Indira: The Life of Indira Nehru Gandhi:

Katherine Frank (US) Inscrutable Americans: Anurag Mathur (Ind) Inside Asia, Inside Europe, Inside Africa, etc. John Gunther (US)

Interpreter of Maladies: Jhumpa Lahiri (Ind-

Interpreting Early India: Romila Thapar (Ind)



Intimacy: Jean Paul Sartre (Fr)	Long Douleton Land
Invisible Man: H.G. Wells (Br)	Long Day's Journey into Night: Eugene O't lead
Iran Awakening: Shirin Ebadi (Ira)	(US)
Is New York Burning?: Larry Collings (US) &	Long Walk to Freedom: Nelson Mandela (SA) Look Back in Anger: John Osboine (Br)
Dominique Lapierre (Fr)	Lord of the flies: William Coking (Br)
Is Paris Burning? Larry Collins (US) & Domin-	Love Story: Erich Segal (US)
ique Lapierre (Fr)	core story, erich segai (03)
Isabella: John Keats (Br)	Mocheth: W. Shakespeare (Br)
, ,	Magic Mountain: Thomas Mann (Ger)
Jai Somnath: K.M. Munshi (Ind)	Mahatma Gandhi and his Apostles: Ved Menta
Jane Eyre: Charlotte Bronte (Br)	(Ind-US)
Jean Christophe: Romain Rolland (Fr)	Mahatma Gandhi: Romain Rolland (Fr)
Journalism and Politics: Chalapathi Rau, M. (Ind)	Main Street: Sinclair Lewis (US)
Julius Caesar: William Shakespeare (Br)	Making Sense of Chindia: Jairam Ramesh (Ind)
Jungle Book: Rudyard Kipling (Bri)	Malgudi Days: R.K. Narayan (Ind)
Junglee Girl: Ginu Kamani (Ind)	Man and Superman: George Bernard Shaw (Ir)
Jurassic Park: Michael Crichton (US)	Man of Property: John Galsworthy (Br)
	Man, Beast and Virtue: Luigi Pirandello (Br-Ita)
Kamasutra: Vatsyayana (Ind)	Man-eaters of Kumaon: Jim Corbett (Br)
Kane and Abel: Jeffrey Archer (Br)	Managing for the Future: Peter Drucker (US)
Kanthapura: Raja Rao (Ind)	Managing for Results: Peter Drucker (US)
Kashmir: A Tragedy of Errors: Tavleen Singh	Mankind and Mother Forth: Amold Toyribae
(Ind)	(Br)
Koyor: Thakazhi Sivasankara Pillai (Ind)	Many Worlds: K. P. S. Menon (Ind)
Kenilworth: Sir Walter Scott (Scot)	Maximum City: Bombay Lost and Found.
Ridnapped: Robert Louis Stevenson (Scot)	Suketu Mehta (Ind-Br)
Kim: Rudyard Kipling (Scot)	Mayor of Casterbridge: Thomas Hardy (Br)
King Lear: William Shakespeare (Br)	Mein Kampf: Adolf Hitler (Ger) Memories of Hope: Gen. Charles de Coulle (Fr)
Kubla Khan: Samuel Taylor Coleridge (Br)	Men are from Mars, Women are from Verius.
Ladies Commentaria Atria (In al)	John Gray (US)
Lodies Coupe: Anita Nair (Ind)	Middle March: George Eliot (Bri)
la Peste: Albert Camus (Alg-Fr.)	Midnight in the Garden of Good and Esd. John
lady Chatterley's Lover: D.H. Lawrence (Br) La _l ja: Taslima Nasreen (Ban)	Berendt (US)
Lost Burden: Upamanyu Chatterjee (Ind)	Midnight's Children: Salman Rushdie (Ind-Br)
'at Things: C.P. Snow (Br)	Mill on the Floss: George Eliat (81)
Contract (Social Contract)	Minorities in a Democracy: Humayun Katar
Rousseau (Fr.)	(Ind)
od Kindly Light: Vincent Sheean (US)	Moby Dick: Hermann Mehalle (US)
aders: Richard Nixon (US)	Moonwalk: Michael Jackson (US)
ones of Grass: Walt Whit-man (US)	Mother India: Katherine Mayo (US)
3 Miserables: Victor Hugo (Fr.)	Mother: Maxim Corky (Rus)
Tiathan: Thomas Hobbes (Br)	Much Ado About Nothing: Watern Buking eace
(e Daine: Sri Aurobindo (Ind)	(Br) Murder in the Cathedral: T. S. East (US-Et)
'e is Elsewhere: Milan Kundera (Cze-Fr.)	My Days: R. K. Narayan (Ind)
Pect Pi: Yann Martel (Can)	My India: S. Nahal Sanghi (Inc.
et Samuel Johnson: James Boswell (Scot)	My Life: Bill Clinton (US)
4.03 to Tell the Tale: Gabriel Garcia Marquez	My Life and Tenes: V. V. Gar
(Ccl)	My Muss, My Lie, Pt. Para S
a Ta: Madimir Nabakov (Rus-US)	The Oak Sound M. Daily
States of the Long Distance Runner: Allan	My Fresident all team Rivers
Side (Br)	od

- - -

Mystic River: Dennis Lehane (US) My Son's Father: Dom Moraes (Ind) My Story: Jackie Chan (CH) My Truth: Indira Gandhi (Ind)

Nana: Emile Zola (Fr) Never At Home: Dom Moraes (Ind)

New Dimensions of India's Foreign Policy: A. B. Vaipayee (Ind)

Nice Guys Finish Second: B.K. Nehru (Ind) Nineteen Eighty Four: George Orwell (Br)

Nisheeth: Uma Shankar Joshi (Ind) No Full Stops in India: Mark Tully (Br)

No Logo: Naomi Klein (Can) Northern Lights: Philip Pullman (Br)

Nostradamus and his Prophecies: Edgar Leoni

Nostromo: Joseph Conrad (Pol-Br) O'terusalem: Larry Collins (US) & Dominique

Odakkuzhal: G. Shankara Kurup (Ind) Of Human Bondage: W. Somerset Maugham

Oliver Twist: Charles Dickens (Br)

Lapierre (Fr)

On The Threshold of Hope: Pope John Paul 11

One Hundred Years of Solitude: Gabriel Garcia

Marguez (Col) One World and India: Arnold Toynbee (Br) One World: Wendell Wilkie (US)

Operation Bluestar: The True Story: Lt. Gen. K.S. Brar (Ind)

Operation Shylock: Philip Roth (US) Othello. William Shakespeare (Br)

Our Films, Their Films: Satyajit Ray (Ind) Out of Africa: Isak Dinesen (Dan)

Painter of Signs: R. K. Narayan (Ind) Pakistan Cut to Size: D. R. Mankekar (Ind) Pakistan: The Gathering Storm: Benazir Bhutto (Pak)

Pale Blue Dot: Carl Sagan (US)

Panchatantra: Vishnu Sharma (Ind)

Paradise Lost: John Milton (Br)

Pather Panchali: Bibhuti Bhushan (Ind)

Patriotic Gore: Edmund Wilson (US)

People Like Us: Pavan Varma (Ind) Peter Pan: J. M. Barrie (Br)

Plain Speaking: N. Chandra-babu Naidu (Ind) Plan of Attack: Bob Wood-ward (US) Pleading Guilty: Scott Turow (US)

Preoccupations: Seamus Heaney (Ir) Present at the Creation: Dean Acheson (US) Pride and Prejudice: Jane Austen (Br)

Prince: Niccolo Machiavelli (It) Principia Mathematica: Bertrand Russell- (Br) Prison Digry: Javaprakash Narayan (Ind)

Portrait of India: Ved Mehta (Ind-US)

Post Office: Rabindra Nath Tagore (Ind)

Prelude: William Wordsworth (Br)

Private Lives: Noel Coward (Br) Profiles in Courage: John F, Kennedy (US) Pvamalion: George Bernard Shaw (Ir)

Rabbit, Run: John Updike (US) Ranabhoomi: Prem Chand (Ind) Rayan & Eddie: Kiran Nagarkar (Ind) Reading Lolitha in Tehran: Azar Nafisi (Ira) Rebecca: Daphne du Maurier (Fr) Rebel, The: Albert Camus (Alg-Fr) Red Badge of Courage: Stephen Crane (US) Red Earth and Pouring Rain: Vikram Chandra

(Ind) Red Star Over China: Edgar Snow (US) Reflections on the French Revolution: Edmund

Burke (Br) Remembering Babylon: David Malouf (Austral) Rendezvous with Rama: Arthur C. Clark (Br) Revolution from Within: Gloria Steinem (US)

Riding the Storm: Harold MacMillan (Br) Riot: A Novel: Shashi Tharoor (Ind) Rise and Fall of the Third Reich: William L. Shirer (US)

Robinson Crusoe: Daniel Defoe (Br) Romeo and Juliet: William Shakespeare (Br) Room at the Top: John Braine (Br) Rosencrantz and Guildenstern are Dead: Tom

Stoppard (Br) Rubaiyat-i Omar Khayyam: Edward Fitzgerald (Br)

Saket: Maithili Sharan Gupta (Ind) Sanctuary: William Faulkner (US) Scam, The: Who Won, Who Lost, Who Got Away: Debashis Basu (Ind)

Kinsey (US)

and Sucheta Dalal (Ind) Scarlet Letter: Nathaniel Hawthome (US) Secrets and Lies: Dilip Hiro (Ind-Br) Seven Lamps of Architecture: John Ruskin (Br) Seven Summers: Mulk Raj Anand (Ind) Sexual Behaviour in the American Male: Alfred Shadow and Act: Ralph Ellison (US) The Alchemist: Paulo Coelho (Bra) Shadow from Ladakh: Bhabani Bhattacharya The Algebra of Infinite Justice: Arundhati Roy (Ind) (Ind) Shantaram: Gregory David Roberts (Ind-Br) The Ambassadors: Henry James (US-Br) Shape of Things to Come: H. G. Wells (Br) The Applecart: George Bernard Shaw (Ir) She Stoops to Conquer: Oliver Goldsmith (Ir-The Argumentative Indian: Amartya Sen (Ind) The Arrangement: Elia Kazan (US) 8() The Art of Happiness: Dalai Lama (Tib) Siddharta: Hermann Hesse (Ger) Silent Spring: Rachel Carson (US) & Howard C. Cutler (US) Six Characters in Search of an Author: Luigi The Banyan Tree: Hugh Tinker (Br) The Best and the Brightest: David Halberstam Pirandello (It) Six Easy Pieces: Richard P. Feynman (US) (US) Slaughter House Five: Kurt Vonnegut (US) The Better Man: Anita Nair (Ind) Small is Beautiful: A study of Economics as if The Big Fisherman: Lloyd Douglas (US) People Mattered: Ernst Schumacher (Ger-The Black Hole: Richard Preston (US) The Bride's Book of Beauty: Mulk Raj Anand (Ind) Smail Island: Andrea Levy (Br) The Bridges of Madison County: R.J. Waller Snakes and Ladders: Essays on India: Gita Mehta (Ind-US) The Cancer Ward: Alexander Solzhenitsyn (Rus) Snow Country: Yasunari Kawabata (Jap) The Call of the Wild: Jack London (US) Solie's World: Jostein Gaarder (Nor) The Canterbury Tales: Geoffrey Chaucer (Br) Sohrab and Rustam: Mathew Arnold (Br) The Captive of the Caucasus: Alexander Pushkin Sons of Fortune: Jeffrey Archer (Br) Sons and Lovers: D. H. Lawrence (Br) (Rus) Sophie's Choice: William Styron (US) The Cardinal: Henry Morton Robinson (US) Soul and Structure of Governance in India: The Caretaker: Harold Pinter (Br) Jagmohan (Ind) The Castle: Franz Kafka (Cze) Spause: The Truth About Marriage: Shobha De The Cat and Shakespeare: Raja Rao (Ind) The Changing World of the Executive: Peter (Ind) Star: A Novel: Pamela Anderson (US) Drucker (US) Story of My Life: Moshe Dayan (Isr) The Civil War: Shelby Foote (US) Strangers and Brothers: C. P. Snow (Br) The Clown: Heinrich Boll (Ger) Strife: John Galsworthy (Br) The Coup: John Updike (US) Stupid White Men: Michael Moore (US) The Court Dancer: Rabindra Nath Tagore (Ind) Sun Stone: Octavio Paz (Mex) The Crucible: Arthur Miller (US) Sunny Days: Sunil Gavaskar (Ind) The Da Vinci Code: Dan Brown (US) Swami and Friends: R. K. Narayan (Ind) The Day of the Locust: Nathaniel West (US) The Death of Vishnu: Manil Suri (Ind) Talisman: Sir Walter Scott (Scot) The Degeneration of India: T.N. Seshan (Ind) Tarzan of the Apes: Edgar Rice Burroughs (US) The Diary of a Young Girl: Anne Frank (Ger) Tempest: William Shakespeare (Br) The Double Helix: James D. Watson (US) Tender is the Night: F.Scott Fitzgerald (US) The End of a Beautiful Era: Joseph Brodsky Tenth Insight: James Redfield (U.S) (Rus-US) Thank You, Jeeves: P. G. Wodehouse (Br-US) The End of History and the Last Man: Francis The Adventures of Sherlock Holmes: Arthur Fukuyama (US) Conan Doyle (Br) The English Roses: Madonna (It-US) The Attluent Society: John Kenneth Galbraith The Executioner's Song: Norman Mailer (US) The Eye of the Storm: Patrick White (Austral) The Age of Reason: Jean Paul Sartre (Fr) The Far Pavilions: M.M. Kaye (Br) The Ayunda: Bob Woodward (US) The Faraway Music: Svetlana Allilueva (Rus-The Ageny and the Ecstasy: Irving Stone (US) US)

The reminine Mystique: Betty Friedan (US) The Fifth Horseman: Larry Collins (US) and Domnique Lapierre (Fr) The Fire Next Time: James Baldwin (US)

The Forbidden Sea: Tara Ali Baig (Ind) The French Lieutenant's Woman: John Fowles

The Fury: Salman Rushdie (Ind-Br) The Future of India: Politics, Economics and Governance: Bimal Jalan (Ind)

The Ginger Man: J.P. Donleavy (US) The Glass Palace: Amitav Ghosh (Ind) The God of Small Things: Arundhati Roy (Ind)

The Godfather: Mario Puzo The Golden Gate: Vikram

Seth (Ind-US) Arundhati Roy The Golden Notebook: Doris Lessing (Br) The Grapes and the Wind: Pablo Neruda (Chi) The Grapes of Wrath: John Steinbeck (US) The Great Challenge: Louis Fischer (Fr) The Great Indian Novel: Shashi Tharoor (Ind) he Great Unravelling: Paul Krugman (ÙS) he Green Knight: Iris Murdoch (Br) The Guns of August: Barbara Tuchman (US) The Heart of the Matter: Graham Greene (Br) The Heart is a Lonely Hunter: Carson McCullers

The Hitchhiker's Guide to the Galaxy: Douglas The Homet's Nest: Jimmy Carter (US) The Horse Whisperer: Nicholas Evans (Br) The Horseshoe Table: An Inside View of the UN Secunty Council : Chinmaya R. Gharekhan

he Hot Zone: Richard Preston (US) he House of the Spirits: Isabel Allende (Chi) ne Humboldt Gift: Saul Bellow (US)

e Hungry Tide: Amitav Ghosh (Ind) e Idiot: Feodor Dostoyevsky (Rus) Importance of Being Earnest: Oscar Wilde(Ir) Interpreters: Wole Soyinka (Nig) Inscrutable Americans: Anurag Mathur

invisible Man: Ralph Ellison (US) ke Milan Kundera (Cze-Fr) idge: Steve Martini (US) dgement: Kuldip Nayar (Ind)

The Little Prince: Antoine de Saint-Exup The Making of a Midsummer Night's David Selbourne (Br) The Man Without Qualities: Robert Musi The Mandarin: Simon de Beauvoir (Fr) The Masters: C. P. Snow (Br) The Medium is the Massage: Marshall Mcl The Men Who Killed Gandhi: Manohar Malgo The Merchant of Venice: William Shakespe

The Middle Ground: Margaret Drabble (Br) The Mind of the C.E.O: Jeffrey E. Garten (US) The Miniaturist: Kunal Basu (Ind) The Minister's Wife: Amaresh Mishra (Ind) The Miser: Moliere (Fr) The Moon and Sixpence: W. Somerset Maugham The Monk Who Sold His Ferrari: Robin S.

The Keeper of the Keys: Milan Kunder

The Last Song of Dusk: Sidharth Sang

The Last Temptation of Christ: Kazantza

The Legends of Khasak: O.V. Vijayan (i

The Moor's Last Sigh: Salman Rushdie (Ind-Br) The Namesake: Jhumpa Lahiri (Ind-US) The Name of the Rose, The Mysterious Flame of Queen Loana: Umberto Éco (lt) The Narrows: Michael Connelly (US) The New American Militarism: At Bacevich (US) The Night Manager: John le Carre (Br) The Old Man and the Sea: Ernest Hemin The Origin of Species: Charles Darwin (Br)

The Other Side of Midnight: Sidney Sheldon (The Painted Veil: W. Somerset Maugham (B. The Pickwick Papers: Charles Dickens (Br) The Pilgrim's Progress: John Bunyan (Br) The Power and the Glory: Graham Greene (B The Power of Positive Thinking: Norman Vincent Pa The Private Life of Chairman Mao: Dr.Li Zhisu The Proper Study of Mankind: Isaiah Berlin (Br)

The Rain King: Saul Bellow (US) The Rape of the Lock: Alexander Pope (Bri) The Red Carpet: Bangalore Stories: Lavanya The Return of the Native: Thomas Hardy (Br)

na Yearbook 2007

The Rights of Man: Thomas Paine (Br-US)
The Road Ahead:Bill Gates (US)
The Robe: Lloyd C. Douglas (US)
The Roots: Alex Haley (US)

The Roots: Alex Haley (US)
The Satanic Verses: Salman Rushdie (Ind-Br)

The Sotanic Verses: Salman Rushdie (Ind-Br)
The Second World War: Winston Churchill (Br)

The Secret Life of Bees: Sue Monk (US)
The Seven Spiritual Laws of Success: Deepak
Chopra (Ind-US)

The Sheltering Sky: Paul Bowles (US-Mor)
The Shoes of the Fisherman: Morris L. West

(Austral)
The Social Contract: Rousseau (Swi-Fr)
The Song of Susannah: Stephen King (US)

The Songs of India: Sarojini Naidu (Ind)
The Sound and the Fury: William Faulkner (US)
The Spirit of the Age: William Hazlitt (Bri)

The Story of My Experiments with Truth: Mahatma Gandhi (Ind) The Story of the Integration of the Indian States:

V.P. Menon ()
The Strange and Sublime Address: Amit Chaudhuri

The Struggle and the Triumph: LechWalesa (Pol)
The Struggle in My Life: Nelson Mandela (SA)
The Sword and the Sickle: Mulk Raj Anand (Ind)
The Testament: John Grisham (US)

The Thief Lord; Inkheart; Dragon Rider: Cornelia Funke (Ger)

Cornelia Funke (Ger)
The Third Wave: Alvin Tofler (US)
The Time of the Hero: Mario Vargas Llosa (Per)
The Total Zone: Martina Navaratilova (Cze-US)

The Total Zone: Martina Navaratilova (Cze-U Tree of Man: Patrick White (Austral) Trial: Franz Kafka (Cze) Trotter-Nama: Allan Sealy (Ind) Unfurnished Man: Nizzim Ezekiel (Ind)

Vicar of Wakefield: Oliver Goldsmith (Ir-Br) Victim: Saul Bellow (US) Volcano Lover: Susan Sontag (US) Wasteland: T.S. Elot (US-Br)

Vendor of Sweets: R.K. Narayan (Ind)

Way of all Flesh: Samuel Butler (Br)
Way to Paradise: Mario Vargas Llossa (Per)
Wealth of Nations: Adam Smith (See)

Wealth of Nations: Adam Smith (Scot)
White Mughals: William Darymple (Scot)
World is Flat: Thomas Friedman (US)
Zahir: Paulo Coelho (Bra)

ery of War: Joan Brady (US)

1935 Fell Apart: Chinua Achebe (1903)

teenth Sun, The: Amrita Pritam (Fig.

Thousand Cranes: Yasunari Kawabata (Jap) Three Horsemen of the New Apocalypse: Nirad C. Chaudhuri (Ind-Br)

Chaudhuri (Ind-Br)
Thus Spake Zarathustra: Friedrich Wihelm
Nietzsche (Ger-Swi)
Time Machine: H.G. Wells (Br)

Tin Drum: Gunther Grass (Ger)
Tinker, Tailor Soldier: John Le-Carre (Br)
Tokyo Cancelled: Rana Dasgupta (Ind)
Tom Jones: Henry Fielding (Br)
To Kill a Mocking Bird: Harper Lee (US)

To the Lighthouse: Virginia Woolf (Br)
Train to Pakistan: Khushwant Singh (Ind)
Transmission: Hari Kunzru (Ind-Br)
Treasure Island: Robert Louis Stevenson (Scot)
Tropic of Cancer: Henry Miller (US)
Truth, Love and a Little Malice: Khushwant

Singh (Ind) Tryst with Destiny: S. Copalan (Ind) Twelfth Night: W. Shakespeare (Br) Two Leaves and a Bud: Mulk Raj Ananci (Ind)

Ulysses: James Joyce (Ir)

Uncle Tom's Cabin: Harriet Beecher Since Tunder the Net: Iris Murdoch (Er)
Unless: Carol Shields (US)
Unsafe at Any Speed: Ralph Neder Tunto The Last: John Ruskin (Er)
Untold Story: General B.M. Kau Trail
Up from Slavery: Booker Tunes Tuntopia: Thomas Neder Er,

Valley of the Doctor

Waiting for Cook I was I was I waiting for the

المنظمة المنظمة

والتعدين الشياني المسترين

Wild Swans: Jung Chang (Chin-Br) Wings of Fire: A.P.I. Abdul Kalam (Ind) Winning: Jack Welch, Suzy Welch (US) Winter Solstice: Rosamunde Pilcher (Scot) Witness to an Era: Frank Moraes (Ind) Women in Love: D.H. Lawrence (Br) World Within Worlds: Stephen Spender (Br) Wuthering Heights: Emily Bronte (Br)

Yayati: V.S. Khandekar (Ind) Year of the Upheaval: Henry Kissinger (US) Yesterday and Today: K.P.S. Menon (Ind) You Can Win: Shiv Khera (Ind)

Zen and the Art of Motorcycle Maintenand Robert Pirsia (US) Zorba the Greek: Nikos Kazantzakis (GK)

मीरिए विस्वारिक विशेष

Prof. P. Vijaya Kumar

The Analects (5th century BC) by Confucius.

The thoughts of the great Chinese philosopher and religious teacher Confucius can be found in two sets of books. The first set - The Five Classics - are concerned with administration, history, ceremonials and arts. The Analects is one of the four books that make up the second set (Ssu Shu) all of which are concerned with ethics and philosophy. These gleaned fragments are divided into 20 chapters and cover various aspects like the qualities of a good government, ancient worthies, manners and morals, character and principles, virtue, the responsibilities of rulers and the qualities of his disciples. The wisdom of the ancients should be a source of guidance, Confucius constantly reminds his pupils. The cultivation of uprightness and integrity, the need to build good human relationships and the need to be useful to both society and to the country are

emphasised. Confucius, it can be seen, valued

rational thinking, egalitarianism and altruistic

behaviour. He saw himself as just a teacher

transmitting the wisdom of ancient Chinese

culture and not as a god or a prophet. Here is

a familiar sounding gem from Book XII of The

Analects - "What you don't want yourself,

don't do to others". Like all great books, the relevance of The Analects is timeless. The Republic (4th century BC) by Plato.

The Republic is the most famous of Plato's dialogues. The speaker is Socrates and Book I starts with Socrates and his companions talking about old age and happiness and wealth. The discussion turns to justice and the conversation, which appears to be pleasant chit chat about the origin of justice and injustice in society, soon transforms itself into a full-fledged exploration of some of the central questions of philosophy. We find the

typical Socratic procedure - a definition is

suggested, is refuted and a counter example offered and considered. From Book II Socrates sketches the ideal republic, a place where justice would be available to all. He speaks about the nature of humanity and the social classes one would find in an ideal society. An aristocratic group of philosopher kings, who represented reason, would rule and all citizens would do the work most suited to them. The education that the philosophers would have to be given is described. It would include music, gymnastics, science, mathematics and the study of ideas. Different forms of government are looked at and, in Book X, an

world - from magic to religion to science. In future, science itself might be displaced. An absorbing read, valued today more for its literary qualities than for its insights.

A Room of One's Own (1928) by Virginia Woolf

There are endless discussions on whether men are superior to women. Male chauvinists aleefully point out that most of the great thinkers, scientists, writers and artists have been men. In this perspicuous and influential book. Woolf counters the chauvinist male by explaining why women have not produced great works of fiction. It is, she demonstrates. primarily because of lack of opportunity. Crushed by demands of family and home women have, through most of history, found it impossible to express themselves creatively. Leisure and means (or in her words "£ 500 a year and a room of one's own") are needed for women before they can come into their own. If Shakespeare had an equally gifted sister she would never have become a famous playwright, ludith (that is the name Woolf gives this hypothetical sister) would not have been sent to school and, if, like Shakespeare. she had run off to London, instead of fulfilling her artistic potential, Judith would have found herself pregnant and would probably have committed suicide. Circumstances, in other words, make people and now that for the first time in history, the circumstances are right, at least for western women, to achieve greatness they should seize the opportunity, says Woolf. One of the most eloquent books ever against prejudice.

A History of Western Philosophy (1945) by Bertrand Russell,

The 33 chapters that make up this excellent book fall into three main sections: Ancient Philo-sophy, Catholic Philoso-phy and Modern Philoso-phy. Russell's focus is not on individual thinkers alone, but on how philosophy shapes and is shaped by society and culture at large. So he takes great care to sketch the ethos

which gave rise to different schools of philosophy and the political and historical context in which individual philosophers are to be placed. For Russell philosophy, as opposed to theology.



Bertrand Russell

began in sixth century BC in ancient Greece. It fell into decline when Rome fell. Its second great period was from the eleventh to the fourteenth centuries, a period dominated by the Catholic Church. The third period, from the seventeenth century, is dominated by science. Russell pays as much attention to movements as to individuals who had an impact on philosophy. For instance, there are chapters on Stoicism and the Romantic Movement as there are on Rousseau and Byron, Written with his customary wit, polish, irony and immense erudition the book can be read both for profit and for pleasure. Perhaps the most stylish and readable introduction to Western philosophy there is.

Silent Spring (1962) by Rachel Carson.

"There was once a town in the heart of America where all life seemed to live in harmony with its surroundings." With this almost fairy tale like beginning Rachel Carson sketched a bleak picture of what man-made chemicals, widely used as pesticide, were doing to the fragile and complex processes that keep nature going. Her education as a marine biologist and her career as a writer-scientist opened her eyes to this lethal dimension of industrial civilisation. She focused on the indiscriminate use of DDT and pointed to research that showed some alarming things about it - almost all animals on earth, even birds in areas as remote as Antarctica, now have some DDT in their flesh. The spread of this and similar man made toxins was doing slow but irreversible damage to the son,

t support all animal life on earth. She warned about the genetic deterioration t synthetic chemicals and man-made

ers, seas and the green mantle of plants

iation were effecting. Pointing out that history of life on earth has been a history

interaction between living things and ir surroundings Carson went on to say it if we served a chemical feast we would on wake up to springs "when no birds o". An intelligent and insightful book m a top science writer. An Area of Darkness (1964) by V. S.

Naipaulhad been born Trinidad where his

andfather had gone as

iipaul.

i indentured labourer. reland of his forefathers as, for him, a country ispended in time, a void, n "area of darkness". He

V.S. Naipaul ad been brought up a Hindu but, was by xlination, a sceptic and indifferent to religion.

धी that was Hindu in him was a vague sense

30s Naipaul set out to learn about the land of his forefathers. In Bombay, his first stop, he got a frightening glimpse of what he called

a caste and a "horror of the unclean". In his

"India's ever receding degrees of degradation" andwashorrified by it. He did not find the rest tithe country any different. Most of the book is harsh, critical and negative but it not to be dimissed as a drain inspector's report. Naipaul

mixed travel writing with sharp analysis. He noted, for instance, how Gandhi, the resolutionary, had been transformed into a shatma and absorbed into the formless estuality and decayed pragmatism of India.

flurning Gandhi into a god Indians had lost Ameriage. Naipaul is most scathing about recople - their manners, attitudes, Mccny, callousness, unctuousness and even Pearance. A provocative and thought

Markey book

Small is Beautiful (1973) by E F Schumacher, E.F. Schumacher, who had been by toms a

farmer, a businessman and an academic, captured international attention with this evocatively titled work which flooked at economics usif people mattered. "Schumacher pointed out that economists suffered from a kind of metaphysical blindness which made them assume that their's was a science of absolute and invariable truths. Their cardinal error was in treating natural capital as income. an error for which mankind would have to pay unless they rectified their economic behaviour. Schumacher advocated a "Buddhist economics" the keynotes of which would be "simplicity and non-violence". An intermediate technology that made proper use of land and other resource would, he felt, lay the ground for a sustainable future. Schumacher is considered the first halistic thinker of the Green movement and even today, in an age obsessed with growth and a mania for high-tech solutions, his picture of a humane alternative to rampant capitalism is as relevant, and persuasive, as when it was first outlined. The Decline of Nair Dominance (1976)

by Robin Jeffrey. When Vivekananda visited Kerala in the

1890s he famously described it as a furnition

asylum. Less than a century later it had become a model state. How did this transformation come about? It is this intriquing question that is behind Robin Jeffrey's landmark study The Decline of Nair Dominance, Jeffery tells us about the social and political changes Kersha underwent and shows how a feadal, matrilineal, caste-ridden society segued into a modem, democratic, Literate state that put in power the world's first elected communicat government. A careful reading of source matenal and a methodical analysis enables jerrey to paint a picture of change caused twitters tare of a cash economy, western-sty improved transport and commu

the setting up of a British-inspired system of law. It is also the story of how the Nairs, who fitted in perfectly with Louis Dumont's definition of a "dominant caste", were brought down from their position of comfortable superiority over other castes to having to compete with them. Thirty years after its first publication this book still is the most astute and readable study of social change in Kerala.

Russian Thinkers (1978) by Isaiah Berlin.

This collection of seven essays by the political philosopher and historian of ideas Isaiah Berlin includes his celebrated piece 'The Hedgehog and the Fox'. For Berlin the hedgehog is a metaphor for those writers who relate everything they do and say to a central vision, while foxes stand for those whose vision is plural and contradictory. Though reductive and simplistic, Berlin felt that this categorisation was a handy way of grouping and understanding writers. Tolstoy was, for Berlin, a fox, while Dostoevsky was the quintessential hedgehog. The other essays in the volume include one on the birth of the Russian intelligentsia, the influence of German romanticism on Russian thinkers, the impact of the 1848 revolts in France on Russia and on individual Russian thinkers like Alexander Herzen, Vissarion Belinsky and Mikhail Bakunin. To each Berlin brings his characteristic clarity and profundity. For those who love ideas, every essay is a treat. The ideas themselves are significant because, as Berlin clearly shows, they still animate our intellectual world.

Life on Earth (1979) by David Attenborough.

This is one of the early books of one of the planet's most famous documentary makers on natural history. It presents a fascinating picture of animals; how they live, find their food, defend themselves, court and fit in with the rest of the natural world and also on the role they have played in shaping the history

of life on the planet. Attenborough warns us that readers risk imagining an appearance of purpose on the animal kingdom that does not exist in reality. Millions of species have become extinct and Attenborough tries to enlighten us about their roles by looking at their present day descendants. The last of the 13 chapters - 'The Compulsive Communicator' - is on man. Attenborough's extraordinary ability to make connections will hold the reader spellbound. An example: he describes the feather, the most distinguishing feature of a bird, and then shows how the same material forms a reptile's scales and our own nails.

The Moronic Inferno (1980) by Martin Amis.

This is a collection of 26 witty and perceptive essays on the USA which, in a metaphor he borrowed from Saul Bellow, Martin Amis calls "the moronic inferno". America has always excited and frightened him, says Amis, and he thinks it is a place one must understand if one is to understand the modern world. With a keen and observant eye and a fine turn of phrase Amis sketches the weirdness and wildness of America. He has chapters on writers like Bellow, Truman Capote, Norman Mailer and John Updike. There is one on the pioneering feminist Gloria Steinem and another on a meeting with Hugh Hefner the publisher of Playboy magazine. He looks at the violence that was endemic in America in the 1980s as well as the impact of AIDS on society. Amis notes that the moronic inferno is not just a metaphor for America today. It is a metaphor for human infamy, "mass, gross, ever-distressing human infamy" which he thinks is both global and eternal. Amis contemplates the frightening possibility that soon every country will become like America. Then the moronic inferno will cease to be a meaphor and will become a reality; probably the only reality. That might be a bleak mess?4 but the book is an exhilarating read.

Cosmos (1980) by Carl Sagan.

One of the things that has most fascinated nankind at all times has been the shape and ature of the universe he inhabits. Most cretion myths have tried to solve this riddle. At the opening of Cosmos Sagan tells us that we have discovered a powerful and elegant way to understand the universe, a method alled science; it has revealed a universe so

cience also says that we are a part of this osmos and that our fate is connected with t. It is this cosmic perspective that Carl Sagan envestigates in Cosmos. He discovers the gran-

ncient and so vast that human affairs seem

t first sight to be of little consequence." But

leur of the universe and the grandeur of our attempt to understand it. In the last tenth of a percent of the lifetime of our species we've acquired the knowledge to understand and describe the earth and also to destroy the earth and extinguish mankind. Never was here greater need for wisdom and Sagan concludes the book with a stocktaking and a

peep at our uncertain future. Children, and

he child in adults, will find this book most

engrossing. **The Inner World** (1981) by Sudhir Kakar.

This book is a praiseworthy attempt to un-

derstand the Indian psyche by examining the individual, social, cultural and historical dimensions involved in shaping it. There is an emphasis on individual psychological development, understandable since Kakar is a practising psychoanalyst. He pays attention to the network of social rules, traditional values, caste customs and kinship regulations in-

approach is eclectic and he uses the findings and ideas from anthropological accounts, sociological studies, folk tales, mythology, historical reflections and his own clinical impres-

volved in creating a sense of identity. His

mutually reinforce each other Kakar gives special importance to the analysis of clinical evidence and interpretation of myths. He fears

sions. Pointing out that psyche and culture

that Indian culture will soon find itself entrapped in a field of critical environmental stresses and is unsure how it will cope. But Kakar ends with a positive message: the traditional Indian identity elaborated in the book can evolve in such a way that both its historical continuity and its integration with a changing environment are maintained. A fine, unparalleled, attempt to understand the Indianness of Indians.

Spin and Other Turns (1994) by Ramachandra Guha.

Some sections of Indiais intelligentsia look down on cricket as a vestige of colonialism. Other sections champion hockey and football. But it is a fact that Indians play this quaint and fascinating game with aplomb and that India is one of the world's cricket superpowers. Few have written on Indian cricket with the intelligence, knowledge, insight, and charm of Ramachandra Guha. He brings to bear on his analysis of cricket the erudition and meticulousness of a professional historian and sociologist and the love of a practitioner and fan. Spin and Other Turns is about Indian cricket in the 1970s, when it really came of age. This was when India defeated both the West Indies and England away from home and thus laid the foundation for her triumph at the World Cup in 1983. Guha identifies two great traditions of Indian cricket - the art of slow bowling and the Bombay school of batsmanship. Sections are devoted to "the Holy Trinity" of Bedi, Prasanna and Chandrasekhar and also to the first great Indian spinner — Palwankar Baloo, a dalit who was held as a model by B R Ambedkar. Among the batsmen Guha devotes space to are Gavaskar, Merchant and G R Viswanath. A delightful book.

My Own Country (1994) by Abraham Varghese.

The book opens with a dramatic of a young man returning home to town of Johnson City, Tennesse fro

York, where he had been working. The man is critically ill and soon dies. This is the first death of AIDS in Johnson City. But soon, the city and Dr Varghese, the infectious disease specialist in Johnson City, have to take care of other patients with AIDS. The experience transforms Varghese, who, like so many others of the Indian diaspora, was looking for a place he could call home; for "his own country". Bom and educated in Ethiopia, Varghese had earned his medical degree from Madras Medical College and found his American experience nurturing both professionally and personally. But nothing had prepared him, or Johnson City, for the devastation AIDS was to wreak. As Varghese narrates the story of his doomed patients we learn about illness, courage, compassion, prejudice, hope, mortality, love, yearning, greed, renunciation, pain and even the good life. Against this larger background Varghese softly weaves in the touching story of the falling apart of his personal life. Varghese's unique status as an exile helped him empathise with his ostracised patients and his exceptional narrative skill and graceful prose make My Own Country a beautiful and healing work. In many ways it tells a sad story, but our understanding of disease and death, of AIDS and its dreadful power and, therefore, of the 20th century itself, would not be complete without this masterly narrative.

Gandhi (1997) by Bhikhu Parekh

Bhiku Parekh's slim volume is no hagiography but an intelligent assessment of the thoughts and deeds of one of the greatest men who ever lived. It begins with a brief look at Gandhi's life and work. Parekh then turns to Gandhi's thoughts on religion, politics, human nature and his concept of ahimsa. Gandhi's vision of a non-violent world and his weighty critique of modernity are then examined. The link between Gandhi's life and his actions and his constant, courageous quest for truth and his obsessive attempts to

live by his principles are described. Parekh is even handed and identifies Gandhi's limitations as well. His failure to appreciate science and modernity, his imperfect understanding of how societies function and how evil can transform the world, his utopian ideas on economics, his insensitivity to art, history, nature etc are all ascribed not to lack of intellectual curiosity but Gandhi's intensely moralistic vision of life. It was a vision that prevented him from having interests other than the full time care of his soul and the interests of his countrymen. Lord Parekh's book is the perfect introduction to Gandhi, the man and his ideas.

Carrere

The Adversary (2000) by Emmanuel

How many lies can a man tell?

On January 9, 2003 Jean-Claude Ramondis house, in northern France, burned down killing his wife and two children. He himself barely managed to survive. Ramond, a pillar of the local community, was a respected researcher and doctor who had been working in a WHO lab in nearby Geneva. The same day his parents, and their dog, were found dead at their home fifty miles away. Police investigations soon showed that this was no tragic coincidence. Ramond himself had killed his parents, then his wife and children and then set fire to his house. Police also found that Ramond had been leading a double life for over two decades. He was no doctor. Indeed he had not even finished his medical education. He drove to "work" every day but spent his time in parks and libraries. He borrowed money from relatives and friends promising to invest them in high interest yielding schemes available to him as a WHO professional. Finally, when it was clear his lies would catch up with him, he sought a way out through murder. Emmanuel Carrere, one of France's most critically acclaimed writers, in a gripping narrative, tells us this true story of monstrous deception. But even he has no explanation

for why Ramond acted as he did. That explains the title. The adversary is one of the pseudonyms for the devil.

How many lies can a man tell? Many, but not an endless number.

On Literature (2002) by Umberto Eco. Knowledge, Eco suggests, is of two kinds

-that which tells you about the outside world

and that which wins you promotions at uni-

versities. Umberto Eco, novelist, intellectual,

cultural critic, medievalist, scholar and pro-

fessor of semiotics at the oldest university in

the world (University of Bologna) has a pas-

sionate concern for real knowledge and a

canny sense of how difficult it is to attain it.

His writings are full of remarkable insights into

life and literature. This volume is as engross-

ing as any of his other works of non-fiction as, with charm and wit, he looks at the world of writers and writing. He brings great clarity to a variety of subjects including the nature of prose and poetry, on why we read and why some people write, on America and anti-Americanism, on tragedy, the detective story, irony and metaphor, symbolism, paradox, computers and literature, history, post modernism, conspiracy theories and on how he writes his novels. The best of the lot is perhaps the erudite yet playful piece titled 'The Power of Falsehood'. How to Be Alone (2002) by Jonathan Franzen The essays in this volume celebrate being a reader and a writer. Franzen is aghast at the amount of outrageousness being manufactured in the USA and at a world where the voices of self and commerce are drowning out all other voices. He sets out to address the problem of preserving individuality and complexity in a noisy and distracting mass culture. That, for Franzen, is the problem of

how to be alone. He thinks the problem is

related to the act of reading, for reading

sparks the imagination unlike use of other

types of media like television or multimedia.

The decline of reading is not just a shift in our change of entertainment but, Franzen

suspects, a transformation of the very nature of humanity. In the contemporary world, we have "instead of a soul, membership in a crowd" and "instead of wisdom, data." Essays on the postal system and new prisons, written with humour and charm, demonstrate how the civic has become the commercial. In "Meet me in St Louis" Franzen explains why he declined to be on Oprah Winfery's Book Club, an act that earned him much public opprobrium. It was, for Franzen, as much about preserving his dignity as about the boqusness and superficiality of TV. An elegant, clear eyed and wise book.

The Emerging Mind (2003) by Vilayanur Ramachandran

The five essays in this volume (originally the 2003 Reith Lectures) were written with the intention of making neuroscience and psychophysics more accessible to a broad audience. In the first 'Phantoms in the Brain' Ramachandran looks at some rare neurological syndromes and demonstrates how it is possible to learn about the working of the normal brain from these neurological oddities. The second 'Seeing is Believing' in on the role of "mirror neurons" in the evolution of culture. The third 'The Artful Brain' is on neuroaesthetics and here he spells out his "10 universal laws of art". The fourth essay 'Purple Numbers and Sharp Cheese' in on synthesia as sensory phenomenon whose neural basis can be discovery in the brain and which can help us understand metaphor and the evolution of language. The last 'Neuroscience' the new philosophy' is on mental illness and Ramachandran's hope for the future of his subject. The essays, when read with the copious footnotes that accompany them, could be an eye opener.

Occidentalism (2004) by Ian Buruma and Avishai Margalit

Edward Said's Orientalism was such a

phenomenonal success that most of its contentions went unchallenged and are today accepted as facts. But prejudices and stereotyping are not just characteristic of the Western view of the East. They also mark the Oriental views of the West and are, like the white man's prejudices, based on ignorance, misunderstanding and stupidity. In six brief but cogently argued essays Ian Buruma and Avishai Margalit look at the origins of Occidentalism, or the Eastern view that the West is decadent and dehumanising. They discover that the roots of the hatred of the West lie in the West itself. Many of the ideas that inform Occidentalism came from the German and Russian reactions to the Enlightenment; some, like the myth of the sinful city and the martyr cult that saw liberal democratic societies as weak and corrupt and antiheroic, have more ancient roots. In other words, the roots of 9/11 lie deep in the past and in Europe itself. An eye-opener.

The Arthashastra (between 3rd century BC and 2rd century AD) by Kauthilya

This is the mother of all treatises on economics and politics and statecraft. For Kautilya "arthashastra" is "the science of wealth and welfare". Kautilya destroyed the weak Nanda dynasty and installed Chandragupta Maurya on the throne of Magadha. He believed that, using the principles set out in his treatise, it was possible to set up an ideal kingdom. The Arthashastra is an incredibly detailed guide in 15 chapters. The topics dealt with include the branches of knowledge, the constituents of the state and the threat to them, the duties of a king, revolts, rebellions, conspiracies, treason, the bureaucracy, revenue, duties of different officials, punishment of corrupt officials, all aspects of the legal system, occult practices, covert operations, foreign policy and war. Behind the apparent cynicism lay the desire to ensure the welfare of his people; a good king had to maintain law and order and run an efficient administrative machinery.

A Brief History of Time (1988) by Stephen Hawking

Theoretical physics, and the mathematics needed to understand it, seemed outside the ken of most people. Stephen Hawking decided to present, without any mathematics or formulae, a picture of the universe that intelligent laymen could grasp. The result was the surprising bestseller A Brief History of Time. Hawking begins with the premise that the universe is governed by natural laws that we can discover and understand. There are chapters on space and time, the expanding universe, the uncertainty principle, the forces of nature (especially gravity), elementary particles, black holes and the origin and fate of the universe. The book also contains a glossary and portraits of Galileo, Newton and Einstein. In a moving conclusion Hawking expresses the hope that soon it might be possible to unify the laws of physics. If that happens we will have discovered a complete theory of the universe or, in Hawking's words, "know the mind of God".

The Poverty of Historicism (1957) by Karl Popper

Popper uses "historicism" to mean the belief that historical events are governed by laws. He thought that such a faith in the inexorable laws of historical destiny had led, in the 20th century, to the rise of both fascist and totalitarian states which had, in the name of progress, killed millions, Popper refuted historicism by pointing out that the course of human history was strongly influenced by the growth of human knowledge. He pointed out that it is impossible to predict the growth of scientific knowledge and so, he reasoned, it is not possible to predict the future of human history. Historicism rose out of a mistaken understanding of the methods of the natural sciences and represented a misguided effort to copy these methods. Popper, acclaimed for his anti-authoritarian social and political philosophy, examined the roots of these beliefs in his two volume classic The Open Society and Its Enemies.

Meditations (167 AD) by Marcus Aurelius

Marcus Aurelius became the emperor of Rome in A D 138, at 17. It was an unhappy reign, troubled by rebellion, natural disasters and war. Meditations is a set of earnest jottings he made. The first book is on himself. In it he considered what he had learned from others. The rest of the 12 books are in the form of musings about a number of subjects and earnest exhortations to himself. He thought it important to understand the nature of the world and his part in it. He considered the fleeting nature of time, the soul, the judicious use of one's time on earth, God, the good life, duty, justice and other topics. Selfdiscipline and temperance and a calm acceptance of the inevitability of death, he believed, could give one peace of mind. All his thoughts are marked by moderation, gentleness and the stoicism for which he was famous.

The Life of Samuel Johnson (1791) by James Boswell

Dr Samuel Johnson was the most famous intellectual and man of letters of his time. James Boswell, an admirer of Dr Johnson and a writer of no mean ability himself, set himself the task of writing a definitive biography of his hero. The result was what was considered the greatest biography of all time. Apart from recording the details of Dr Johnson's life, Boswell also painted a detailed picture of several other luminaries of the time, like Sir Joshua Reynolds, the painter, David Garrick the actor, Burke the orator, and Oliver Goldsmith, the writer. Long conversations on art and philosophy are recorded as are a number of letters written to and by Johnson. The result is an unrivalled portrait of an age, when people spoke much and were outspoken and the notion of political correctness did not exist, and a model biography.

The Varieties of Religious Experience (1902) by William James

lames offers a psychological view of religion in the 20 essays of this book. He examines personal religious beliefs, not organised religions. He is struck by the fact that the unseen world, which is psychologically important to the subject who experiences it, is more powerful than the material world. He then looks at how optimistic and pessimistic people respond to religious experience. The "completest" religions are those in which the pessimistic elements are best developed. The best of these are Buddhism and Christianity. James then examines the conflicts experienced by the "twice born" or sick souls and looks at the phenomenon of moral conversion among believers. He then turns to saintliness, its qualities and usefulness. Before concluding James also looks at mysticism and the relationship between philosophy and religious experience. At a time when thinkers were declaring religion dead James's masterly

The Decline and Fall of the Roman Empire (1776 – 1788) by Edward Gibbon This is a grand history of Rome, from 180,

when Marcus Aurelius's reign ended, to 1590,

study explained why humans would always

be religious.

when Constantinople fell. In clear and sonorous prose Gibbon narrated the story of the fall of one of the greatest empires the world had seen and of which he was an admirer. Gibbon identified four reasons for the ruin of Rome: natural calamities; the hostile attacks of the barbarians from the North and the hostility of Christians within the empire; the

abuse of the material wealth of Rome and the domestic quarrels of the Romans. The work is characteristic of the Enlightenment of which Gibbon was a representative and reflects his

anti-clerical and rational inclinations. His use of carefully footnoted sources makes him one of the first modern historians, while the magnificence of his theme and style make this

work one of the greatest literary works of all time.

The Argumentative Indian (2005) by Amartya Sen

It is a blinkered view of history, argues Sen, which makes us assume that democracy and



Amartya Sen

secularism, and also ideas like tolerance and those of science, are imports from the West. Sen shows that the tradition of debate and dissent, pluralism and heterodoxy has informed India from the early days of her history. It is because India has

Such a rich argumentative tradition that Westminster style parliamentary democracy took roots in India so easily, while it failed in most countries which were also subject to British colonialism. This collection of essays also has wonderful pieces on Indian calendars, the relationship between India and China and India and the nuclear bomb. This book will help every Indian understand the history of our land, the components of its culture and the sources of or sense of identity. Sen shows how India, with its rich intellectual and artistic tradition was always shining.

The Selfish Gene (1976) by Richard Dawkins

Dawkins believed that Darwin was the first thinker to put together a coherent and tenable account of why we exist. In *The Selfish Gene* he set out to examine one aspect of evolutionary theory – the biology of selfishness and altruism. His argument is that as animals we are all machines created by our genes. Our genes themselves are the fundamental units of selection and to be successful a gene has to be ruthlessly selfish. But genes survive by fostering a form of altruism at the level of individual animals. To understand the evolution of modern man we must throw out the gene as the sole basis of evolution. Cul-

ture is spread through a new replicator the "meme". Memes are, like genes, blind but Dawkins insists that our conscious foresight could save us for the worst excesses of thes blind replicators. Nice guys, he says, ca finish first.

The Interpretation of Dreams (1900 by Sigmund Freud

As a doctor searching for a cure for hi neurotic patients Freud discovered the un conscious. He believed that this irrational chaotic and unknowable part of our mind the unconscious - dictated how we behaved Dreams, he theorised, gave a therapist acces to this world and the conflicts that lay there A patient could be cured if his conscious mine could be made aware of the nature of the conflict tearing it apart. Freud did not cure many patients this way, but the "talking cure" and the book that introduced these ideas to the public, gained immense popular ity. In individual chapters he looked at the method of dream interpretation, dreams a wish-fulfilments, the

source of dreams and the psychology of dream processes. The ideas in the book shaped the way men saw themselves and so this book is considered one of the seminal works of the 20th century.



The Uses of Literacy (1957) by Richard Hoggart

"Work is the curse of the drinking classes" said Oscar Wilde. The image of the working classes as lazy, criminally inclined and liquor loving is an old and widespread one. Hoggart, in The Uses of Literacy tried to find out what real working class culture was like. He studied their reading and listening habits and came up with a fascinating and detailed picture of working life and culture. He found that they were a gregarious and warm people whose

lives were built on the twin values of love and work. Their sense of independence and loyalty to their class is reinforced by their division of the world into 'Them' and 'Us'. The second half of the book is a less than happy look at how organised commercial interests and the mass media were corrupting authentic working class culture. One of the classics of cultural studies.

The Greatest Benefit to Mankind (1997) by Roy Porter

With 22 chapters, 24 pages of plates, 46 pages of "further reading" and a 66 page index this is a thorough look at the medical history of humanity from antiquity to the present. A finely balanced and neutral tone is maintained throughout and the charge of ethnocentricity deftly avoided with chapters on Chinese, Indian and other systems of medicine. The information packed and readable account is the story of a million small steps taken to take modern medicine to where it currently is - its standing is high but also highly contested. Never has it achieved so much or attracted such great suspicion. Today medicine is a profitable source of business for lawyers, accountants and other expensive professions parasitical upon medicine. Its future, concludes Porter, is unforeseeable because the evolutionary battle between microbes and man is itself unpredictable.

Guns, Germs and Steel (1997) by Jared Diamond

When a hunter-gatherer from New Guinea asked Diamond why some parts of the world were so advanced while others were primitive he decided to find the answer for himself. Pushing back the chain of historical causation as far as possible Diamond discovered that the answers came from geography. Patterns of history and the current state of the world can be explained by understanding environmental and geographical conditions. These conditions include the availability of plants and animals that could be domesticated,

which led to agriculture which in turn led to the development of technology. The eastwest axis of land mass led to evolution and growth while the north-south axis and the environmental variation it provided meant stagnation. Diamond is careful not to make a claim without some scientific backing for it. He ends the book with an invigorating chapter on the future of human history as a science.

The Beauty Myth (1991) by Naomi Wolf.

The cause of women's liberation, after several decades of progress, might soon be wrecked on the rock of concern with women's "beauty"; such things as "physical appearance, bodies, faces, hair, clothes." Women in the West are now worse off than their grandmothers because they are now weighed down by notions of beauty. The use of images of female beauty against women is a political backlash against feminism, feels Wolf. Myths of motherhood, domesticity, chastity and passivity were used to control women. Those forms of social coercion have been replaced by the ideology of beauty. Every gain made by feminism is being undermined by the beauty myth. Wolf's most spirited chapters are on anorexia and cosmetic surgery. Wolf ends the book with a call for a third wave of feminism.

Outcaste (2002) by Narendra Jadhav

This moving and inspirational book narrates the story of four generations of the Jadhavs. Damu and Sonu, the author's parents, had fled their ancestral village of Ozar in Maharastra and sought refuge, and employment, in Bombay. Living in chawls and workers' quarters the two raised a family of six kids who became successful; Narendra got a Ph D from the US and became head of the economics research wing of the RBI, and his siblings entered the IAS. The struggles of Damu and Sonu and the iniquities of the caste system are described vividly but without rancour and hatred. Parallel to the narra-

tion of the story of the Jadhavs is the rousing tale of the transformation of the lives of dalits brought about by Dr B R Ambedkar's exhortation to educate, organise and struggle. *Outcaste* is artfully written and an important contribution to understanding the social changes India witnessed in the 20th century.

Nature's Numbers (1995) by lan Stewart

What can mathematics tell us about the universe? A great deal, it would appear. In this lucid and beguiling account Stewart shows how mathematics can be a tool to discover and describe order and pattern in the universe. The natural world is full of patterns. Examples include the structure of an atom, the number of petals in a flower, the patterns on the sand dune in a desert, the shape of a droplet, the shape of the galaxies and the universe itself. Sections are devoted to the great astronomical discoveries, Fibonacci's series, chaos theory, the butterfly effect and other such apparently esoteric stuff. Stewart makes all these accessible to even those with non-mathematical minds. Nature is both about rigid laws and flexible change and the science of mathematics will help us understand both.

White Mughals (2002) by William Dalrymple

From 1797 to 1805 James Kirkpatrick was the British Resident at Hyderabad. Here he adopted Indian ways, fell in love with and married the great niece of the diwan. His wife, Khair un-Nissa, was only 14 and their love affair was a scandal that threatened to derail the relationship between the British and Hyderabad. James's conversion to Islam and his pro-India ways were not always approved by his superiors even when his services as a diplomat were valued. In 1805 he sent his two children to England to be educated but himself died in Calcutta. Khair travelled to Calcutta to visit his grave.

She never saw her children again and died in Hyderabad in 1813. Apart from the great appeal of this story, what makes Dalrymple's work unique is the insight he provides into the mixture of cultures that goes against all notions of the East and the West being irreconcilably different.

Consillence (1998) by Edward O Wilson

E O Wilson coined the word "bio-diversity", is the father of sociobiology and one of the greatest zoologists in the world. When young he dreamt of the unification of learning. His boldest attempt to bring about such a unification is Consilience. Consilience is the "linking of facts and fact-based theory across disciplines to create a common groundwork of explanation." This idea goes back to the Enlightenment and implies that the universe is orderly and can be understood by a small number of natural laws. It is not only the sciences that Wilson hoped to unify, but the social sciences and even the humanities. There are chapters devoted to the mind, genes and culture, the social sciences, the arts and ethics and religion. He concludes that "all tangible phenomena, from the birth of the stars to the workings of social institutions, are based on material processes that are ultimately reducible ... to the laws of physics,"

Chasing the Monsoon (1991) by Alexander Frater

This humorous and very readable narrative begins with a chapter on Frater's childhood in Micronesia and his fascination with the rains. A chance encounter in London reminds him of the Indian monsoon and, spurred by his father's unrealised ambition of visiting Chirapunji during the rains, he decides to "chase" it. He meets it at Trivandrum and follows it to Cochin, Goa, Bombay, Delhi, Calcutta and, finally, Chirapunji. The book is filled with anecdote, history, the physics of the weather and genial observations on India and her people. Chirapunji was out of bounds to foreigners and, though not hopeful of

success, Frater applied for special permission to visit it. Frequent references to the progress of his application though the bureaucratic pipelines of Delhi lend some tension to the book and the narrative climax is reached with a visit to a wet and hostile Chirapunji.

The End of History and the Last Man (1992) by Francis Fukuyama

Fukuyama says that history as an evolutionary process has come to an end ie., one cannot conceive of a better system of government than liberal democracies of the West, though much of the world is still "living in history". The idea of a Universal History was first proposed by Kant and later taken up by Hegel. Scientific knowledge is what lends history directionality. Now that science has been discovered, there will be no forgetting or going back and its political, economic and social consequences – liberal democracy, capitalism and a society defined by technology are inevitable. Fukuyama rejects the Marxist view of history and examines the ideas of Hegel, Hobbes and Locke. Man's need for recognition (thymos) is a strong driving force and since the only political system that satisfies it is democracy, Fukuyama concludes that capitalist, liberal democracy is the way of the future. Provocative but cogently argued.

The Language Instinct (1994) by Stephen Pinker

Understanding language, Pinker thinks, is the key to understanding human nature and he deploys the tools of cognitive science to do so. Language is not a cultural artefact, but a biological adaptation to communicate information – an instinct to acquire an art. Pinker rejects a number of traditional notions about language and learning. He shows that languages do not shape the way we think or even make thinking possible, that grammar does not have to be taught to children, that the language instinct is the same in most people and that it is distinct from the ability to process information. Some of his ideas come

from Chomsky and there is a lucid explanation of these in one chapter. There are also chapters on language families, phonetics, structure and grammar, the misplaced notions of "correct English" and the false claims that chimps had been taught language. A witty introduction to linguistics.

The Story of My Experiments with Truth (1927-1929) by M K Gandhi

Gandhi was not writing a Western style autobiography, he said, but telling the story of his experiments with truth. He saw his life as consist-



Mahatma Gandhi

ing of these experiments and believed that his readers would also be interested in them. All his experiments were spiritual for he saw morality or spirituality as the essence of religion and his aim was to achieve self-realization. The book, divided into five parts, is chronologically arranged and methodically narrated. In 147 small chapters, they tell the story of Gandhi's life from his birth to the Nagpur session of the Congress. Whether writing about his almost ridiculously small number of "sins" or satyagraha or the agitations he participated in or his experiences in Europe and South Africa or his diet or ahimsa or celibacy or "other principles of conduct believed to be distinct from truth" his quest was always for the truth and his narration deeply engaging. Prophets Facing Backward (2004) by

Prophets Facing Backward (2004) by Meera Nanda

This robust defence of Enlightenment values examines the role of the religious right in India and how post-modernism has skewed people's ideas of science. The schizophrenia of those Indians who have embraced a dangerous form of "reactionary modernism", and embrace technology without accepting the modernization or secularization of cul-

tural categories that should accompany it, is responsible for this sorry state of affairs. The dangerous relativism accepted by postmodernists feeds the fascist and chauvinistic ideology of the Hindutva brigade. Passionate yet cogent Nanda calls for a resumption of the Enlightenment quest. These traditions are not alien to India. The Buddha's teachings pointed to the suppressed traditions within Indian culture that value naturalism and empiricism over the metaphysical flights of Vedantic Hinduism. Amdedkar's call for a scientific temper and a democratic ethos is a restatement of this tradition. A critique of Indian intellectuals and a powerful plea for egalitarianism, rationalism and humanism.

Manifesto of the Communist Party (1848) by K. Marx and F. Engels

"A spectre is haunting Europe - the spectre of Communism." So begins the most famous of all political essays. The first section "Bourgeois and Proletarians" declares that all history is the history of class struggles. Oppressor and oppressed have always fought each other and new classes and alignments have risen. The modern bourgeois society that has arisen on the ruins of feudal society has created new conditions of oppression. The working class create wealth, but the profit goes to the capitalist. The proletariat, or new working class, have to seize power from the bourgeoisie to bring about a worker's paradise. Central to the manifesto is the idea that private property has to be abolished. There is a section on the relationship of Communists to proletarians and another on the position of the Communists and other opposition parties. The thesis might be flawed but for sheer rhetorical power the Manifesto is unrivalled.

The Autobiography of an Unknown Indian (1951) by Nirad Chaudhuri

If one of the marks of an intellectual is to

take positions that others would not, Cahudhuri is one of India's leading thinkers. He dedicated his autobiography to the British empire because "all that was good and living within us was made, shaped, and quickened by the ... British rule." The four sections that make up this volume are on his childhood, his first twelve years, his education and his struggle to build a career as a writer. But their chief interest is in the panoramic view they present of India between 1897 and 1921. The book closes with an essay on Indian history where he outlined his theory that Indian culture has bloomed only when she had mixed with some foreign culture. This book and the sequel, Thy Hand, Great Anarch, show him to be a profound scholar, a forceful writer and an unorthodox thinker.

Orientalism (1978) by Edward Said

Few recent books on culture have had the impact of Edward Said's Orientalism. Making use of Michel Foucault's notion of a discourse, Said looks at Orientalism as a Western style for dominating, restructuring and having authority over the Orient. In post-Enlightenment Europe a systematic discipline was set up by which European culture was able to produce and manage the Orient. The act of description itself is, Said avers, an exercise in power. Europe gained in strength and identity by setting itself off against the Orient. Orientalism became an academic tradition and a habit and made every European narrowly ethnocentric, racist and imperialist. Early in the book Said exmines Orientalism in the light of British and French experience of Islam and Arabia. Another chapter looks at 19th century writers, like Marx and Renan and Flaubert, and their role in consolidating Orientalism. The book closes with a look at how latent and manifest Orientalism operate now. This angry polemic against Western prejudice won Said an immense following and raised him to the position of the chief spokesman of the third world in America.

Applications and the second se

Prof. Joseph Mathew, Palai

Great films can't be measured scientifically because greatness is extremely subjective. Over a long period of time film critics, reviewers and fans are making lists of best films, great films and favourite films. In this selection of 100 great films of World Cinema, 50% are from Hollywood (American produc-

tions). The remaining films are from other countries like Great Britain, France, Italy, Sweden, Poland, Japan and so on. Some are classics, masterpieces, Award winners and even Box-office super hits. These films have the power to entertain, enchant, inform and move us emotionally and change our perception of things. Silent movies are omitted in this selection.

Also Indian movies were not considered in this list.

The Adventures of Robin Hood (1938) USA 105 mins Director: Michael Curtizand William Keighley Cast: Errol Flynn,

Olivia de Havilland, Basil Rathbone, Claude Rains, Melville Cooper, Ian Hunter, Alan Hale, Eugene Pallette.

The first technicolored version of the Robin Hood legend. This classic presents Errol Flynn at his swashbuckling best. This good natured, extravagant adventure epic still packs romance, comedy, great sword play action, music and colorful characters. Winner of Three Academy awards.

All About Eve (1950) USA 138 mins Director: Joseph L. Mankiewicz Cast: Bette Davis, Anne Baxter, George Sanders, Hugh Marlowe,



The behind-the-scenes world of the Broadway theatre is the subject of this classic. The cynical and witty screenplay features full blooded characters. Its narrative structure continues to inspire back stage dramas. Winner of Six Academy awards.

The African Queen (1951) USA 106 mins Director: John Suston Cast: Humphery Bogart, Katharine Hepburn, Robert Morley, Theodore Bikel, Peter Bull.

Set in German East Africa at the beginning of World War I this magnificent comedy tells the tale of an unlikely romance between a hard-drinking middle-aged mail boat skipper and a priggish spinster missionary. Academy award for best actor to Humphrey Bogart.

An American In Paris (1951) USA 113mins Director: Vincente Minnelli Cast: Gene Kelly, Leslie Caron, Nina Foch, Oscar Levant, Georges Guetary.

This delightful Hollywood fantasy with its romantic vision of Paris was shot entirely on the MGM studio lot. With lavish sets and costumes and a superlative cast, it is a superb movie entertainment. One of the most celeberated musicals of 1950s. Winner of Six Academy awards.

Ashes And Diamonds (1958) Poland 102 mins Director: Andrzej Wajda Cast: Zbigniew Cybulski

The chief character is a Polish partisan who is unable to understand why the killing must continue after World War II is over. The film is the clearest expression of Wajda's fascination with the bitter aftermath of war and the intellectual contradictions war creates.

Aguirre, The Wrath of God (1972) Germany, Mexico, Peru 93 mins Director: Werner Herzog Cast: Klaus Kinski,! Rojo, Ruy Guerra, Del Negro, Peter Be This epic historical drama is the story, 🔩

expedition of the Spanish conquistador Gonzalo Pizarro in the impenetrable jungles of Peru. In his mad pursuit for riches. Pizarro orders a party to scout ahead for signs of El Dorado. Wading through the treacherous waters by a raft, the explorers are besieged by hostile natives, disease and starvation. Crazed with greed and mad with power Aguirre takes over the enterprise slaughtering any one who opposes him. Nature and Aguirre's unquenchable thirst for glory ultimately render him insane, in charge of nothing but a raft of corpses and chattering monkeys.

Amarcord (1974) Italy/France 123 mins
Director: Federico Fellini Cast: Puppela
Maggio, Magali Noel, Armando Brancia, Ciccio
Ingrassia, Luigi Rossi, Nandino Orfei, Bruno Zanin

This landmark film is based on director Fellini's reflections of his youth in a small town in prewar Italy. Winner of Academy award for Best foreign language film.

All The President's Men (1976) USA 135 mins Director: Alan J. Pakula Cast: Dustin Hoffman, Robert Redford, Jack Warden, Martin Balsam, Jason Robards, Jane Alexander, Hal Holbrook, Meredith Baxter.

The Watergate scandel - as exposed by Washington Post reporters Bob Woodward and Carl Bernstein meticulously transferred to the screen by Alan Pakula and proving that politics, providing they are sensational enough, can be both a critical and box-office success. Winner of Four Academy awards.

Annie Hall (1977) USA 94 mins Director: Woody Allen Cast: Woody Allen, Diane Keaton, Tony Roberts, Shelley Duvall, Carol Kane, Paul Simon.

Autobiographical urban romantic comedy by Woody Allen following the up down relationship between a neurotic night club comedian and a young midwestern singer who meet, fall in love, quarrel and finally break up. Winner of Four Academy awards.

Apocalypse Now (1979) USA 153 mins Director: Francis Ford Coppola Cast:

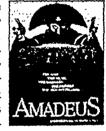
Marlon Brando, Robert Duvall, Martin Sheen, Frederic Forrest, Albert Hall, Sam Bottoms, Harrison Ford, Scott Glen, Dennis Hopper.

The most realistic account of the physical and psychological horrors of the Vietnam War; an updating of Joseph Conrads' Heart of Darkness about an army captain who is ordered to hunt down a deranged American officer operating in Cambodia with an army of guerilla tribesmen. Undeniably brilliant, this film is also claustrophobic and terrifying. Winner of Two Academy awards.

Amadeus (1984) USA 160 mins Director: Milos Forman Cast: F. Murray Abraham. Tom

Hulce, Elizabeth Berridge, Jeffrey Jones, Charles Kay, Simon Callow, Christine Ebersole, Roy Dotrice, Kenny Baker

One of the most entertaining movies to emerge from Hol-



lywood in the 1980's, Amadeus has beautiful music, colorful costumes, a terrific script based on the original stageplay, superb acting performances and a stirring and exciting story. Tom Hulce starred as the immortal Wolfgang Mozart and Murray Abraham as his embittered rival, court composer Antonio Salieri. Winner of Eight Academy awards.

Blow Up (1966) Italy 110 mins **Director**: Michaelangelo Antonioni **Cast**: David Hemmings, Vanessa Redgrave, Sarah Miles

Antonioni's break through masterpiece of detection and obsession begins with photographer Thomas taking pictures of a romantic couple cavorting in a public park. The photos develop into frightening grainy images of an apparent murder of an old man. The mystery remains intact long after the film ends.

The Best Years Of Our Lives (1946)USA172mins Director: William Wyler Cast: Fredric March, Myrna Loy, Dana Andrews, Harold Russel, Virginia Mayo, Teresa Wright, Cathy O'Donnell

Alandmark classic drama about three World War II veterans attempting readjustment to peacetime life and discovering that they have fallen behind. The most memorable film about the aftermath of World War II. Winner of Seven Academy awards.

The Bridge on The River Kwai (1957) Great Britain 161 mins Director:

David Lean Cast: Alec Guinness, Jack Haw-kins, William Holden, Sessue Hayakawa, James Donald, Geof-frey Horne



This exceptional war movie is known for its visual beauty.

Set in a Japanese Prisoner of War camp in Burma, the story centres around the construction of a railway bridge by British and American POWs and its subsequent destruction by a small commando unit. Winner of Seven Academy awards.

Ben-Hur (1959) USA 217 mins **Director:** William Wyler **Cast:** Charlton Heston, Jack Hawkins, Stephen Boyd, Hugh Griffith, Haya Harareet, Matha Scott, Sam Jaffe, Cathy O'Donnell, Finlay Currie.

This spectacular 15 million dollar epic set in the Roman empire's province of Judea, starred Charlton Heston as the Jewish prince Judah Ben Hur, whose childhood friendship with the Roman tribune Messala (Stephen Boyd) turns to enmity when Messala destroys Ben Hur family. Sentenced to the galleys Ben Hur rescues a Romanadmiral during a sea battle and is adopted by him. Making his way back to Jerusalem, Ben Hur defeats Messala in a climactic Chariot race and rescues his mother and sister who have become lepers. They are cured by Christ at the moment of the crucifixion. Winner of Eleven academy awards, an all time record.

Breathless (1959) France 89 mins **DIrector:** Jean Luc Godard **Cast:** Jean Paul Belmondo, Jean Seberg, Daniel Boulanger

A Hoodlum kills a policeman after stealing a car and takes it on the lam with his American girlfriend. This key film of the French 'New Wave' movement of the late fifties is a romanticized view of crime and street life. Veteran director Francois Truffautwrote the story. The original French title was A bout de souffle.

The Ballad of Narayama (1983) Japan 129 mins Director: Shohei Imamura Cast: Ken Ogata

Based on one of the most unusual Japanese legends, a century ago in a remote mountain village in northern Japan, a local custom dictated that when a person reached 70 years old they were taken to Mount Narayama to die. A true masterpiece of Japanese cinema and a Grand Prize winner at the Cannes Film Festival in 1983.

Citizen Kane (1941) USA 120 mins Director: Orson Welles Cast: Joseph Cotten, Orson Welles, Agnes Moorehead, Everett Sloane, Ray Collins, Dorothy Comingore, William Alland, Erskine Sanford

The rise to power of an American newspaper tycoon Charles Foster Kane, told in flashback through interviews with people who were close to him in his life time. Closely based on the career of newspaper magnate William Randolph Hearst, this remarkable movie is regarded as the greatest film ever made. Nominated for eight Oscars, but won only one award i.e., for best original screenplay.

Casablanca (1942) USA 102 mins Director: Michael Curtiz Cast: Humphrey Bogart, Ingrid Bergman, Claude Rains, Paul Henreid, Conrad Veidt, Peter Lorre, Dooley Wilson, Madeleine Le Beau, S.Z. Sakall

Critically-acclaimed, bittersweet, popular, much loved, World War II flavoured, nostalgic story of intrigue and love that teamed Bogart and Bergman as ill fated lovers. Based comproduced play Everybody Comes

his movie is indisputably one of the landnarks of American cinema. Winner of Three Academy awards.

A Clock Work Orange (1971)
Great Britain 137 mins Director: Stanley
Kubrick Cast: Malcolm Mc Dowell, Patrick
Magee, Paul Farrell, Michael Gover, Warren
Clarke, Michael Bates, John Clive, Andrienne
Corri. Miriam Karlin

Bleakly pessimistic and utterly terrifying his brilliantly directed film, based on a novel by Anthony Burgess, takes audiences into a nihilistic and violent Britain of the future where anarchism reigns, gruesome crime is common place, and the young have lost all moral ties. First film to use the Dolby Labora-

Cabaret (1972) USA 123 mins Director: Bob Fosse Cast: Liza Minnelli, Michael York, Joel Grey, Marisa Berenson, Helmut Griem An outstanding musical chronicling the

adventures of an American singer in Berlin, in

the days immediately preceeding World War II. Winner of Eight Academy awards.

tory Noise Reduction System.

Cries and Whispers (1973) Sweden 91 mins Director: Ingmar Bergman Cast: Harriet Andersson, Ingrid Thulin, Liv Ullmann, Erland Jospehson, Kari Sylwan

The haunting memories of a dying young woman in the house where she was born and being cared for by her devoted servant and her married sister. Academy award for Best Cinematography (Sven Nykvist).

Charlots of Fire (1981) Great Britain 123 mins Director: Hugh Hudson Cast: Ian Charleson, Ben Cross, Nigel Havers, John Gielgud, Nicholas Farrell, Nigel Daven port, Lindsay Anderson, Ian Holm, Cherryl Campbell.

Visually beautiful and reminiscent of old fashioned inspirational movies, Chariots of fireboasts a fine script, excellent performances, a thrilling musical score and a glimpse into recent history. The moving story of two British athletes, both outsiders and both running

for a cause in the 1924 Olympics. Winner of Four Academy awards.

Cinema Paradiso (1988) Italy 123 mins Director: Giuseppe Tornatore Cast: Philip Noiret, Salvatore Cascio, Jacques Perrin, Marco Leonardi

The story focuses on the love of a young boy Salvatore, and indeed the entire Sicilian village where he lives - for movies. Young Salvatore watches movies from the kindly projectionists room of a theatre with much interest. The past unspools in a sentimental flash back for the middle aged Salvatore when he is summoned home for a funeral - of Alfredo the projectionist who is a surrogate father figure. A pleasant sense of nostalgia pervades this Oscar winner for Best Foreign language film. The film also won Palme D'Or at the Cannes festival.

Chicago (2002) USA 113 mins Director: Rob Marshall Cast: Renee Zellweger, Catherine Zeta Jones, Richard Gere, Queen Latifah, Lucy Liu, John C. Reilly, Christine Baranski, Dominic West, Taye Diggs

This Oscar winning best picture of 2002 is a razzle-dazzle tour de force, one of the best movie musicals of all time. Winner of Six Academy awards.

Double Indemnity (1944) USA 106 mins **Director:** Billy Wilder **Cast:** Fred Mac Murray, Barbara Stanwyck, Edward Robinson, Porter Hall

The movie is one of the finest examples of 'film'noir' ever to hit screen. Barbara Stanwyck is a calculating, blonde seductress who lures insurance agent Mac Murray into staging her husbands "accidental death" with their handiwork later investigated by Robinson who traps them.

Doctor Zhivago (1965) USA 197 mins **Director**: David Lean **Cast**: Omar Sharif, Alec Guinnes, Rod Steiger, Ralph Richardson, Julie Andrews, Geraldine Chaplin, Rita Tushingham, Klaus Kinski.

Based on Boris Pasternak's novel this sweep-

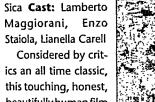
cess. The film is sweeping and episodic, with powerful individual segments. Its gorgeous scenery, romantic story, and haunting love theme have made it an audience favourite ever since its release. Winner of Five Academy awards.

ing epic about a Russian doctor caught up in

the turmoil of World War I and the Russian

revolution was a spectacular box office suc-

Bicycle Thieves (1947) Italy 90 mins Director: Vittorio De



beautifully human film tells the story of an unemployed Italian

worker whose bicycle is stolen. He and his small son search Rome for the precious conveyance. Special Academy award for Best

foreign film.

Double Suicide (1969) Japan 105 mins Director: Masahiro Shinoda Cast: Kichiemon Nakamura, Shima Iwashita

Stunning portrait of erotic obsession and passion in turn-of-century Japan. Shinoda explores sexual taboos in his story of a mer-

chant and a geisha whose ill fated love affair is orchestrated entirely by outside forces. This poignant drama is presented in the style of a Bunraku puppet play. The Discreet Charm of The

Bourgeoisie (1972) France/Spain/Italy 105 mins Director: Luis Bunuel Cast: Fernando Rey, Delphine Seyrig, Stephane Audran, Jean Pierre Cassel, Paul Frankeur, Bulle Ogier, Julianne Bertheau.

Bold social criticism distinguishes this savagely funny surrealistic film. Crafted by the master of black humour and irony, Bunuel who is known primarily for his courageous ideas rather than for technical virtuosity, the

movie concerns a group of friends who keep trying to get together for dinner and who are continually frustrated in the attempt. Basically a blistering attack on the stupidities of the world's bourgeoisie. Winner of Oscar for Best foreign film.

Day For Night (1973) France/Italy 117 mins Director: Francois Truffaut Cast: lacqueline Bisset, Jean Pierre Leaud, François Truffaut, Valentina Cortese, Jean Pierre Aumont A film within a film with Truffaut (as a

fictional film director) best with difficulties of all kinds- the love affairs and emotional problems of his international cast -as he works his way through his latest production. Won the Best foreign film Oscar.

Dersu Uzala (1975) Russia/Japan 137 mins Director: Akira Kurosawa Cast: Maxim Munzuk, Yuri Salomin, Vladimir Klemena, Svetlana Danielchenka

Kurosawa adventure, set at the turn of the century, and centering on a Siberian trapper and a hunter explorer who form a deep inseparable friendship while surveying the unexplored emy award for Best Foreign language film.

forests of Eastern Siberia and Taiga land. Acad-The Deer Hunter (1978) USA 182 mins Director: Michael Cimino Cast: Robert De Nero, John Savage, Christopher Walken,

John Cazale, Merryl Streep, George Dzundza

A huge sprawling movie about the effects of the Vietnam War on three young Pennsylvanian steel workers when they leave their home town for a tour of duty at the front. Only the strongest of the three survives; the others are crushed physically and mentally by the war and torture at the hands of the Viet Cong. Winner of Five Academy awards.

Dances with Wolves (1990) USA 183 mins Director: Kevin Costner Cast: Kevin Costner, Mary Mc Donnell, Graham Greene, Michael Spears, Rodney A Grant, Tantoo Cardinal, Charles Rocket, Jimmy Herman

It is a breath takingly well made film about a white man who comes into contact with Indians and adopts their way of life. It is both a stirring drama and a touching romance. Winner of Seven Academy awards.

Eight and A Half (1963) Italy 135 mins **Director:** Federico Fellini **Cast:** Marcello Mastroianni, Claudia Cardinale, Anouk Aimee Sandra Milo, Rosella Falk

Self analytical, unorthodox, confessional and wonderfully inventive, the autobiographical film, part fact and part fantasy, concerns a successful movie director who in Fellini's own words is 'trying to pull together the pieces of his life and make sense of them'. Perhaps Fellini's strongest cinematic achievement. Winner of Two Academy awards.

The Exorcist (1973) USA 122 mins Director: William Friedkin Cast: Ellen Burstyn, Linda Blair, Max Von Sydow, Jason Miller, Kitty Winn, Jack Mac Govern, Lee J. Cobb, Barton Heyman, Peter Masterson

Fourteen year old Regan is suddenly prone to fits and bizarre behaviour. After exhausting all the options of science and medicine, Regan's mother Chris turns to young priest Father Karras. Convinced that the girl is possessed by the devil, they call in a mysterious exorcist named Father Merrin. Their foe is no ordinary devil. Both the girl and the priest suffer numerous horrors during the struggle. A classic of modern horror movies. Winner of Two Academy awards.

E.T. The Extra Terrestrial (1982) USA 115 mins Director: Steven Spielberg Cast: Henry Thomas, Dee Wallace-Stone, Drew Barrymore, Peter Coyote, Sean Frye, Richard Swingler, K.C. Martel, Michael Durrell, Robert Barton, Frank Toth

E.T. is about a lovable toddler sized creature from outer space stranded in a Los Angeles suburb. Three children protect E.T. from a hostile adult world which would mistreat him in the name of science. After numerous adventures and hair's breadth escapes E.T. is

finally allowed to return to his own planet. Won Four Academy awards.

From Here to Eternity (1953)
USA 118 mins Director: Fred Zinnemann
Cast: Burt Lancaster, Montgomery Clift,
Deborah Kerr, Frank Sinatra, Ernest Borgnine,
JackWarden, Donna Reed, Philip Ober, John
Dennis

Based on James Jone's novel, this movie about soldiers and the women in their lives is set in Hawaii at the time prior to Pearl harbour. Sot in documentary style this film is an unflattering look at military life tackling issues like adultery, injustice, corruption and murder. Winner of Eight Academy awards.

The Four Hundred Blows (1959)
France 99 mins Director: Francois Truffaut
Cast: Jean Pierre Leaud, Patrick Auffay, Claire
Maurier, Albert Remy

Powerful story of a boy and the world that seems to be at odds with him is true and touching. Powerful, tender and at times overwhelmingly sad, this great film touches all the right buttons without being exploitative.

The French Connection (1971) USA 104 mins Director: William Friedkin Cast: Gene Hackman, Roy Scheider, Fernando Rey, Tony Lo Bianco, Ann Rebbot, Arlene Farber, Marcel Bozzuffi, Frederic de Pasquale

Based-on-fact thriller about two New York Narcotics squad detectives (Hackman and Scheider) who play a long shot hunch hoping to smash a 32 million dollar dope smuggling ring. The high point of this film is an exciting car chase with Hackman driving through on coming traffic in pursuit of an elevated train. Winner of Five Academy awards.

Fanny and Alexander (1982) Sweden/France/West Germany 197 mins Director: Ingmar Bergman Cast: Pernilla Allwin, BertilGuve, Erland Josephson

A beautiful fantasy about childhood complete with magic, villainy and melodrama, Fanny and Alexander is a work of art revealing the director's great range, his compassion darare inspired sense of joy. Set in the early rt of the century, the movie tells the story a brother and sister from a warm, loving, and colourful theatre family. Won Academy wards for Best foreign film, Cinematograhy, Costume and Art Direction.

Forrest Gump (1994) USA 142 mins Director: Robert Zemeckis Cast: Tom Hanks, Robin Wright Penn, Sally Field, Rebecca Williams, Gary Sinise, Sam Anderson, John Randall, George Kelly, Bob Penny based on the novel by Winston Groom, the feel good movie boasts a magnificent performance by Tom Hanks and remarkable special

effects. Winner of Six Academy awards. **Gone with The Wind** (1939) USA
231 mins **Director:** Victor Heming **Cast:**Clark Gable, Vivien Leigh, Leslie Howard,
Olivia de Havilland, Thomas Mitchell, Barbara
O'Neill, George Reeves, Evelyn Keyes

A legend in its own time and a legend today this vast technicalor epic based on Margaret Mitchells novel of a womans coming of age against the background of the American Civil War is also a love story packed with adventure. Winner of Nine Academy awards.

The Great Dictator (1340) 55-

128 mins Director: Chanes Chacuin Cast:
Charles Chaplin, Paulette Coccant, 200 Casts,
Grace Hayle
The first talkie film of Chacuin in volunt he

plays two characters, is jewish castler and Adencid Hynker, distator of Tomasia. The is a satire on Accif mitter and the least time Chapilin interests and the characterization.

Gigi (1958) Lish Tirk mark Ilrection Vincente Minnell Caste Lottle Caste Lottle Chevalier, Louis Jourtean, Erea Caste Lottle Gingold, Jacques Bengerar, Sante Esters

TE: It

والمراكاة

district

and rail.

And at this

Based on the crock of Chieffer and Anthrope of nine Academy awards, Chieffer and Anthrope of Shot almost entirely in France and the Common a young out reason and the same and

who gains the heart of a bored Parisian. An elegant musical film.

The Great Escape (1963) USA 170 mins Director: John Sturges Cast: Steve Mc Queen, James Garner, James Coburn, Donald Pleasance, Charles Bronson, Richard Attenborough, David Mc Callum

The movie concerns a group of Allied prisoners who plan a major escape from a Prisoner of War camp, partly with the idea of pulling Germans away from the front to aid in the recapture of the prisoners. Humour, action, suspense and a great chase scene all play a part in this epic cinemascope adventure film with the tragic ending.

The Godfather (1972) USA 175 mins Director: Francis Ford Coppola Cast:

Marlon Brando, Al Pacino, James Caan, John Cazale, Robert Duvall, Diane Keaton, Talia Shire, Alex Rocco, Stening Haydon, John Maney

The gangite film of the contemporary onema, a massive saga of



VORTER CHOICE

nonour, loyalty and crutal murder as the Cinecine family of New York lights to keep its accendancy over rival Matia Type families. Minner of Three Processy awards Based on wand Fisc specificalling cover.

Caccain 1966, ran Meninc Avenum. Action Adamatica Casti Atlan (Aph), Action Actionam, Indignophy, Childr Actional Caton in Children (an, Action

a completion of the source of the product of the source of the product of the pro

reserved the transfer well

a significant is contact to take

adds another jewel to the crown of Iranian Cinema.

Gandhi (1982) Great Britain 188 mins **Director:** Richard Atten borough **Cast:** Ben

Kingsley, Candice Bergen, Edward Fox, Trevor Howard, Martin Sheen, John Gielgud, Rohini Hattangady. Roshan



Seth, John Mills, Ian Charle-son, Saeed Jaffrey, Amrish Puri, Om Puri.

One of the finest screen biographies ever, this film chronicles the life of the Indian leader Mohandas K. Gandhi whose inspired leadership took India from the yoke of British imperialism to independence. Winner of Nine Academy awards.

How Green Was My Valley (1941) USA 118 mins Director: John Ford Cast: Maureen O'Hara, Walter Pidgeon Donald Crisp, Anna Lee, Roddy McDowall, Sara Allgood, Barry Fitzgerald

Based on Richard Llewellyn's novel the movie presents a nostalgic view of the joys and sorrows of a family in a Welsh mining town. Winner of Five Academy awards.

Hiroshima Mon Amour (1959) France 88 mins Director: Alain Resnais Cast: Emmanuelle Riva, Bernard Fresson, Eigi Okada

A mind boggling tale about two people, one a French woman, the other, a male survivor of the blast at Hiroshima. They meet and become lovers. Together they live in their pasts, present and futures in a complex series of fantasies and nightmares.

It Happened One Night (1934)
USA 105 mins Director: Frank Capra Cast:
Clark Gable, Claudette Colbert, Walter
Connolly, Alan Hale, Roscoe Karns, Jameson
Thomas, Arthur Hoyt

One of the greatest romantic comedies in film history, his film is about a runway heiress and awandering journalist who form a lasting

relationship in their journey across country together. Clark Gable and Claudette Colbert are the movies selling points. Winner of Five Academy awards.

Ivan the Terrible (1945) USSR 188 mins Director: Sergei M. Eisenstein Cast: Nicolai Cherkasov, Ludmila Tselikovskaya

Considered among the classics of World Cinema, this epic biography of Russia's first Czar was commissioned by Joseph Stalin to encourage acceptance of his harsh and historically similar policies. World renowned director Eisenstein, instead transformed what was designed as party propaganda into a panoramic saga of how power corrupts those seeking it.

Jaws (1975) USA 124 mins Director: Steven Spielberg Cast: Roy Scheider, Robert Shaw, Richard Dreyfuss, Lorraine Gary, Jay Mello, Murray Hamilton, Carl Gottlieb, Peter Benchley, Jeffrey Kramer

Based on the best selling novel by Peter Benchley, this adventure classic is set at an East Coast resort town, Amity Island which is being terrorized by a great white shark. A trio of shark hunters team up to hunt down the rogue. One of the highest grossing films of all time. Winner of Three Academy awards.

Jurassic Park (1993) USA 127 mins **Director:** Steven Spielberg **Cast:** Sam Neill, Laura Dern, Jeff Goldblum, Richard Attenborough, Bob Peck, Martin Ferrero, Samuel L. Jackson, Joseph Mazzello, B.D. Wong, Ariana Richards

In this adaptation from the novel by Michael Crichton, dinosaurs are genetically recreated to populate the ultimate theme park and a special few are allowed a sneak preview. Awe and wonder soon turns to terror as the creatures break out of their confines and go on a rampage. Winner of Three Academy awards.

Knife in The Water (1962) Poland 94 mins Director: Roman Polansky Cast: Leon Niemszyk, Jolanta Umecka, Zygmunt Malanowicz Absolutely fascinating feature film debut for director Polanski. A couple off for a sailing holiday encounter a young hitchhiker and invite him along on their yacht. The resulting sexual tension is riveting, the outcome impossible to anticipate. Won the Academy award for Best Foreign Film.

Hamlet (1948) Great Britain 150 mins **Director:** Laurence Olivier **Cast:** Laurence

Olivier, Basil Sydney, Eileen Herlie, Felix Aylmer, Peter Cushing, Stanley Holloway, Jean Simmons, Norman Wooland

Wooland Shakespeare's great tragedy transformed and reduced (from 4 ¹/ ₂ hrs to 2 ¹/₂hrs) by



Laurence Olivier, who both directed and starred as the Prince of Denmark, who learns from a ghost that his father has been murdered and that his mother has married the murderer. The first wholly British film to be named best of the year. Winner of Four Academy awards.

Kramer Vs Kramer (1979) USA 105 mins **Director:** Robert Benton **Cast:** Dustin Hoffman, Meryl Streep, Justin Henry, Jane Alexander, Howard Duff, Jobeth Williams

Kramer Vs Kramer is a moving account of the aftermath of divorce and a memorable oploration of parent hood. Advertising extutive Ted Kramer and his wife Joanna have seven year old son Billy. One day Joanna aves her husband and son. Ted and Billy ave learned to live with each other, Joanna sturns and demands Billys' sole custody. Finner of Five Academy awards.

The Lady Vanishes (1938) Great ritain 97 mins Director: Alfred Hitchcock ast: Margaret Lockwood, Michael Redgrave, Dame May Whitty, Basil Rodford; Paul Lukas, Jaunton Wayne.

This charming and riveting suspense drama is a masterpiece. Set almost entirely on a train to England, the movie concerns a young woman who discovers that an elderly lady, actually, a British spy, appears to have vanished into this air. She seeks the aid of a fellow passenger in an attempt to locate the old lady. One of the most admired films of Hitchcock.

La Strada (1954) Italy 94 mins Director: Federico Fellini Cast: Anthony Quinn, Giulietta Masina, Richard Basehart

Fellini's first internationally acclaimed film. Gelsomina, a simple peasant girl is sold to a circus strongman Sampano and as she follows him on his tour through the country side, she falls in love with him. She becomes the victim of his constant abuse and brutality until their meeting with an acrobat dramatically changes the course of their lives. Winner of Academy award for Best Foreign film.

Lawrence of Arabia (1962) Great Britain 221 mins Director: David Lean Cast: Peter O' Toole, Omar Sharif, Alec Guinness, Arthur Kennedy, Anthony Quinn, Jack Hawkins, Jose Ferrer, Claude Rains.

One of the greatest films of all time, with rich cinematography of the immense desert. A sweeping, breath-taking, cinematic biographical epic that follows the true life exploits of a famed British officer, T.E. Lawrence and his transformation from an enigmatic eccentric to a hero in WWI Arabia. Winner of Seven Academy awards.

The Last Emperor (1987) UK 160 mins Director: Bernardo Bertolucci Cast: John Lone, Peter O'Toole, Joan Chen, Victor Wong, Dennis Dun, Maggie Han, Wu Jun Mei.

In this awe-inspiring epic Bertolucci dramatizes the life of Pu Yi, China's last emperor. When he was taken from his home at the age of three to become the all powerful Emperor, the youngster was ironically condemned to a life time of imprisonment. Winner of Nine Academy awards.

The Lord of the Rings: The Return of the King (2003) USA 201 mins Director: Peter Jackson Cast: Sean Astin, Cate Blanchet, Orlando Bloom, Ian McKellen, Billy Boyd, Viggo Mortenson, Liv Tyler, Elijah Wood, John Noble, Andy Serkis, Miranda Otto.....

Based on the epic fantasy by J.R.R. Tolkien, 'The Return of the King' marks the end of the journey that began with 'The Fellowship of the ring'. It tells the concluding story of the hobbits Frodo and Sam, who must make a perilous journey in order to cast the One Ring, which is the source of all evil. The movie is also memorable for the sheer scale of its battle scenes. Won 11 Academy awards, an all time record.

My Fair Lady
(1964) USA 170
mins Director:
George Cukor
Cast: Audrey
Hepburn, Rex Harrison,
Stanley Holloway, Jeremy Brett,
Gladys Cooper, Wilfrid HydeWhite, Theodore Bikel

The film version of Bernard Shaw's Pygmalion written in 1913. The Story concerns an arrogant linguist Professor Henry Higgins betting his friend Colonel Pickering that he can transform cockney flower girl Eliza Doolittle into a lady. After six months Higgins wins the bet, but Eliza feels betrayed. She decides to leave him, but finds it is not easy. Winner of Eight Academy awards.

A Man For All Seasons (1966) Great Britain 120 mins Director: Fred Zinnemann Cast: Paul Scofield, Robert Shaw, Leo Mc Kern, Wendy Hiller, Orson Welles, Susannah York, Nigel Davenport, John Hurt

The battle of wills between Sir Thomas More, Chancellor of England and ebullient Henry VIII who in 1528 was seeking a divorce from Catherine of Aragon in order that he might marry Anne Boleyn. More's brave stand

led to his martyrdom. Winner of Six Academy awards.

Midnight Cowboy (1969) USA 113 mins Director: John Schlesinger Cast: Jon Voight, Dustin Hoffman, Sylvia Miles, Ruth White, John Mc Giver, Brenda Vaccaro, Jennifer Salt, Barnard Hughes

In this tremendous film about the struggle for existence in the urban nightmare of New York's 42nd street area, Jon Voight and Dustin Hoffmann deliver brilliant performances. Voight plays Joe Buck an aspiring male prostitute from Texas who heads to New York for making money by living as a stud. Hoffmann plays Rasto Rizzo, a slimy con artist suffering from tuberculosis. They depend on each other for their existence. Winner of Three Academy awards.

Mephisto (1981) Hungary 144 mins **Director:** Istvan Szabo **Cast:** Klaus Maria Brandauer, Krystyna Janda, Gyorgy Cserhalmi, Peter Andorai, Rolf-Hoppe, Ildiko Bansagi

Hungarian film tracing the rise of an ambitious German actor who marries the daughter of a pro-Nazi figure, thrives when the Nazis come to power then subverts classic figures to the Nazi outlook. A vivid portrait of moral corruption in a malignant society. Won the Academy award for the Best Foreign film.

Nazarin (1958) Spain 92 mins Director: Luis Bunuel Cast: Francisco Rabal, Jesus Fernandex

A memorable film by Bunuel that present a clever variation of the Don Quixote theme, applied to religion and hypocrisy. A priest is cast out of his church for giving shelter to a prostitute. This surrealistic comedy won the Grand Prize at the Cannes Film Festival.

Nostalghia (1983) Italy 120 mins **Director:** Andrei Tarkovsky **Cast:** Oleg Yannkovsky, Erland Josephson

Tarkovsky's first film made outside his native Russia is this highly personal work about a Russian poet on a research project in Italy who attempts to turn his longing for his home and family into a positive experience.

On The Water Front (1954) USA I mins Director: Elia Kazan Cast: Marlon ndo, Karl Malden, Rod Steiger, Eva Marie nt, Lee J. Cobb, Pat Henning, Leif Erickson, on F. Hamilton

This celebrated ackraking film exsessedgrading dockle labour practices, ith director Kazan rowing a harsh spotght on the crooked

nion bosses who used

rong arm tactics and

rced Stevedores to



eg for their jobs. farlon Brando is superb as Terry Malloy who ries to overthrow a corrupt union and suc-

eeds. Winner of Eight Academy awards.

One Flew Over The Cuckoo'

Vest (1975) USA 134 mins Director: Milos Forman Cast: Jack Nicholson, Louise Fletcher,

Sydney Lassik, Brad Dowrif, William Redfield, Dean R. Brooks, Peter Brocco, Danny D'Vito

Patrick Mc Murphy is a drifter who pretends to be a mentally ill in order to get out of work duty at prison. He is sent to a mental

ward ruled by the tyrannical Nurse Ratched who regiments the lives of the patients without helping them. Mc Murphy who sees the absurdity of the situation becomes the

patients symbol of non conformity and re-

bellion. Winner of five major Academy awards - best picture, director, actor, actress and script.

Psycho (1960) USA 109 mins Director: Alfred Hitchcock Cast: Anthony Perkins, Janet Leigh, Vera Miles, John Gavin, Martin Balsam, JohnMcIntire, Simon Oakland, Patricia Hitchcock Psycho is regarded as the 'mother' of all

modem horror suspense films-it inspired plenty of future screen 'slashers'. The murder of Marion Crane (Janet Leigh) in the shower of Room one in Bates Motel is one of the most shocking and famous scenes in the history of

films. Anthony Perkins's haunting portrayal of Norman Bates is one of cinema's most chilling performances. **Patton** (1970) USA 170 mins **Director:**

Franklin J. Schaffner **Cast**: George C. Scott, Karl Malden, Stephen Young, Michael Bates, Michael Strong, Frank Latimore, James Edwards, Cary Lofin

The wartime career of one of the most

controversial American commanders of World War II, General George S. Patton who forfeited command of the 7th army in Sicily after he had struck a soldier suffering from battle fatigue. George Scott is spell binding in the title role. Winner of Seven Academy awards. **Picnic At The Hanging Rock**

Weir Cast: Rachel Roberts, Helen Morse, Dominic Guard, Jackie Weaver. Surreal, hypnotic suspense story revolves

(1975) Australia 110 mins Director: Peter

around the mysterious disappearance of a group of girl students from the Apple yard College at the turn of the century in Australia. They were on a picnic at the nearby Hanging Rock, a primordial formation of mysteriously forbidding rocks.

Rashomon (1950) Japan 88 mins Director: Akira Kurosawa Cast: Toshiro Mifune, Machiko Kyo, Masayuki Mori, Takashi Shimura This was the first Japanese film to receive

widespread international recognition after World War II. A bandit is on trial for raping a woman in a forest in front of her husband and then murdering the husband. The events are related by the three principals and a wood cutter who witnessed the crime. All the versions contradict one another and all are equally convincing. Won the Academy award for Best Foreign language film.

Roman Holiday (1953) USA 118 mins Director: William Wyler Cast: Gregory Peck, Audrey Hepburn, Eddie Albert, Harcourt Williams, Hartley Power, Margaret Rawlings

made Audrey Hepburn a star and earned her an Oscar in her first major role that of a young princess Ann who escapes from the pomp and ceremony of her surroundings for 24-hours and enjoys a brief romance with American journalist Joe Bradley (Gregory Peck). Won Three Academy awards.

Romantic comedy which

Rain Man (1988) USA 133 mins Director: Barry Levinson Cast: Dustin Hoffman, Tom Cruise, Valeria Golino, Ralph Serymour, lack Murdock, Gerard R. Molen

Hoffman gives the performance of his career as the autistic older brother (Raymond Babbit) of Tom Cruise who plays a thoughtless, self-centered hustler (Charlie Babbit) with room in his life only for money. Greed propels him to take a cross country road trip with Raymond, who inherited the bulk of Dad's vast estate. Won Four major Academy awards for best picture, director, actor and original screenplay.

Red Sorghum (1988) China 91 mins Director: Zhang Yimou Cast: Gong Li, Jian Weng, Liu Ji

A superb pastoral epic from the People's Republic of China and winner of Golden Bear at the 1988 Berlin Film Festival. The story relates a passionate folk tale about village wine makers who fight against interloping lapanese invaders. Lyrical and affecting drama.

Snow White and The Seven Dwarfs (1938) USA 83 mins Director: David Hand

Based on the well known fairy tale by Brothers Grimm, this milestone in Animation history was Walt Disney's first full length feature. It is an extraordinary well crafted film with each cartoon character vividly drawn and given a distinct personality. The seven dwarfs-Bashful, Doc, Dopey, Grumpy, Happy, Sleepy and Sneezy - are endearing and won-

derful. The wicked queen is the epitome of cold, dark beauty. And snow white is a charmer. This delightful, colourfilm is a treat for the whole family. Even the songs of the film have become very popular and famous.

The film received a Special Academy award consisting of one regular sized statuette and seven 'dwarf' statuettes.

Singin' In The Rain (1952) USA 103 mins Director: Gene Kelly, Stanley Donen Cast: Gene Kelly, Debbie Reynolds, Jean Hagan, Donald O'Connor

One of the all time best Hollywood musicals that spoofs and satirizes the traditional chaos surrounding the end of the silent era and the dawn of the 'talkies'.

The Seventh Seal (1956) Sweden 96 mins **Director:** Ingmar Bergman **Cast:** Max Von Sydow, Bengt Ekerot, Gunnar Bjornstrand, Bibi Anderson, Gunnel Lindblom

A Swedish knight who has been on the Crusades and has lost his faith returns home to a land beset by plague and panic. He meets Death who offers him a short reprieve by playing a game of chess. This film is about disillusionment, good vs evil, the existence or non-existence of God and other questions. What makes it a masterpiece, however are the strong performances and stunning photography. Many of the images, the chess match, the final Dance of Death are among the most famous in the history of cinema.

The Sound of Music (1965) USA 174 mins Director: Robert Wise Cast: Julie Andrews, Christopher Plummer, Peggy Wood, Anna Lee, Eleanor Parker. Debbie Turner, Heather Menzies, Nicholas Hammond, Duan Chase, Angela Cartwright, Kym Karath

Maria is a free spirited novice at a convent who is hired by Baron Capt. George Von Trapp to be governess to his seven children. She becomes friends with the children and opens them to the joy of music, winning the heart of their father whom she later marries. When the Nazi invasion of Austria threatens

their happiness they plot a dramatic escape. Winner of Five Academy awards.

Starwars (1977) USA 121 mins Director: George Lucas Cast: Harrison Ford, Peter Cushing, Alec Guinnes, Kenny Baker, Carrie Fisher. Mark Hamill, Anthony Daniels, Peter Mayhew

One of the most inventive and entertaining films ever made Starwars knits together fragments of mythology and science into a tale everyone can relate to. A big budget blockbuster with astounding special effects. Won Seven Academy awards.

The Seven Samurai (1954) Japan 197 mins Director: Akira Kurosawa Cast:

Toshiro Mifune, Taka-shi Shimura, Yoshio Inaba, KoKimura, Daisuke Kato, Minoru Chiaki, Kamatari Fuji-wara,

This lapanese movie about seven swordsmen coming to the aid of a besieged peasant village - is one of



those rare screen wonders that seems to end much too soon. Its story is appealing and timeless. Winner of Academy awards for Best Foreign language film.

The Silence of the Lambs (1991) USA 118 mins Director: Ionathan Demme Cast: Jodie Foster, Anthony Hopkins, Scott Glenn, Ted Levine, Frankie Faison, Kasi Lemmons, Anthony Heald.

In this shock filled movie, an FBI cadet is assigned by her superior to interview an imprisoned, cannibalistic psychopath in the hopes of getting his help in capturing a crazed serial killer. Superb performances by Foster and Perkins. Winner of Five major Academy awards.

Schindler's List (1993) USA 185 mins Director: Steven Spielberg Cast: Liam Neeson, Ben Kingsley, Ralph Fiennes, Caroline Goodall, Jonathan Sagalle, Embeth Davidtz, Andrzej Seweryn

The story of one man's (Oskar Schinder) struggle to save the lives of 1000 Polish jews during the Third Reichs' implementation of Hitler's 'final solution'. Spielbergs' masterpiece. Won Seven Academy awards.

Tokyo Story (1953) Japan 139 mins Director: Yasujiro Ozu Cast: Chishu Ryu, Chiyeko Higashiyama, Kyoko Kagawa, Shiro Ozaka, Kuniko Miyake, Haruko Sugimura

Ozus overpowering masterpiece is a deeply felt human drama about an elderly couple who travel to Tokyo, where they are unenthusiastically received by their grown up children. Outstanding black and white cinematography brilliantly captures the landscapes of Tokyo.

Throne of Blood (1957) Japan 110 mins Director: Akira Kurosawa Cast: Toshiro Mifune, Isuzu Yamada, Minoru Chiaki, Takashi Shimura, Chieko Naniwa, Takamaru Sasaki, Akira Kubo

Kurosawa's retelling of 'Macbeth' may be the best film adaptation of Shakespeare ever made. He uses the medium to present Shakespeare's themes in visual images.

2001: A Space Odyssey (1968) Great Britain 141 mins Director: Stanley Kubrick Cast: Kier Dullea, Gray Lockwood, William Sylvester, Daniel Ritcher, Robert Beatty, Sean Sullivan, Margaret Tyzack, Leonard Rossitter

Spectacular movie production of the future revolving round the discovery of a centuries old monolith on the moon and the subsequent journey by a group of astronauts to Jupiter in search of extra terrestrial life. Breath taking special effects by Kubrick and his team earned the film an Academy award. The film contains some of the most powerful images ever to grace a science fiction film.

The Tin Drum (1979) Germany/France 142 mins Director: Volker Schlondorff Cast: David Bennent, Angela Winkler, Mario Adorf, Daniel Olbrychski, Charles Aznavour Gunther Grass's bizarre tale of threeOskar, who stops growing as the Nazis rise to power in Germany. Oskar expresses his outrage by banging on a tin drum. This unique film has a disturbing dream like quality, while its visuals are alternately startling and haunting. Won Academy award for Best Foreign Film. Winner of Grand Prix at Cannes Festival.

Three Colours:- Blue, White, Red (1993, 1994) France/Poland/Switzerland Director: Krzysztof Kieslowski Cast: Juliette Binoche, Benoit Regent, Emmanuelle Riva, Charlotte Very, Florence Pernel, (Blue) Zbigniew Zamachowski Julie Delphy (white), Irene Jacob, Jean-Louis Trintgnant (Red)

Three feature films work separately and as a trilogy, symbolising the three colours which stand for three concepts - Liberty, Equality and Fraternity.

Blue- is a mournful anthem to the ideal of a new, post cold war Europe. Julie loses her husband Patrice, a renowned composer and daughter Anna in a car accident. She tries to forget, to cut herself off from all previous ties and begin a new life. The subtle use of the theme colour is echoed, highlighted and countered by a soaringly beautiful score.

White - Karol, a Polish hairdresser in Paris has become impotent and his wife throws him out on to the streets. His revenge is to turn into a ruthless entrepreneur in the chaotic free market of Poland.

Red-Imposes a formal unity on the trilogy with the judicial intervention of a Retired Judge. Valentine, a young model and the old Judgemeet as adversaries initially but a curious bond develops between them over a period of incident rich time.

Titanic (1997) USA 194 mins Director: James Cameron Cast: Leonardo Di Caprio, Kate Winslet, Kathy Bates, Billy Zane, Gloria Stuart, Bernard Hill, Bill Paxton, Jonathan Hyde

James Cameron made Titanic on a monumental scale, meticulously recreating an illfated journey of the luxury liner with lavish sets and special effects and a haunting emotional core. Leonardo Di Caprio and Kate Winslet are perfectly cast as the vulnerable young lovers from opposite ends of the social strata who find true passion before the ship collides with an iceberg. Winner of Eleven Academy awards an all time record.

Umberto D (1955) Italy 89 mins Director: Vittorio De Sica Cast: Carlo Battista, Maria Pia Cassilio

Umberto an elderly retired civil servant living on an inadequate pension in postwar Rome, is threatened with eviction unless he pays his back rent. He also deeply care about his dog Flike and a pregnant and unmarried young maid Maria who also faces eviction. This is a realistic socially moving drama, one of director De Sica's best.

Ugetsu (1953) Japan 94 mins **Director:** Kenji Mizoguchi **Cast:** Machiko Kyo-Masayuki Mori, Eitaro Ozawa, Kinuyo Tanaka -Mitsuko Mito

Set in 16th century Japan, this film follows the lives of two Japanese peasants as their greed and ambition brings disaster upon their families. There is a fine blending of action and comedy in this ghostly tale.

Vertigo (1958) USA 128 mins **Director:** Alfred Hitchcock **Cast:** James Stewart, Kim Novak, Barbara Bel Geddes, Henry Jones, Tom Helmore, Ellen Carby, Lee. Patrick, Raymond Bailey

Vertigo, a haunting tale of deception, madness and death, is one of Hitchcock's most closely studied films for its psychological complexity. With a plot full of twists and surprises, excellent direction and stylish cinematography Vertigo is thrilling, thought provoking and timeless.

The Wizard of Oz (1939) USA 101 mins Director: Victor Fleming Cast: Judy Garland, Frank Morgan, Ray Bolger, Bert Lahr, Margaret Hamilton, Billie Burke, Jack Haley

The film belongs to the exclusive category of films capable of equally enchanting children and adults. The tale of the little girl

a tornado and manages to get back with the aid of three friends. Won Two Academy awards for Best original score and Best Song. Wages of Fear (1953) France/Italy

Dorothy who is whirled away from home by

128 mins Director: Henri-Georges Clouzot Cast: Yves Montand, Charles Vanel, Peter

Van Eyck, Folco Lolli, Vera Clouzot

This masterpiece of suspense concerns four Europeans stranded and broke in a

South American country, take a job of driving two truckloads of nitro-glycerine over hundreds of miles of mountain roads. The roads are horrible and the trucks may blow up at any moment. It is also an angry denunciation of the exploitation of workers and an exploration of the relationships between four

Wild Strawberries (1957) Sweden 90 mins Director: Ingmar Bergman Cast: Victor Sjostrom, Ingrid Thulin, Bibi Anderson, Gunnar Bjornstrand, Max Von Sydow An elderly Swedish Professor Isak Borg

drives back to his home town to receive an

men.

णाज्योगितिस्य = २५० मिस्स

Prudhomme, France (1901) rst Nobel Prize winner for Peace -Jean Henri Dunant, Switzerland & Frederic Passy, France (1901)

irst Nobel Prize winner for Physics - Wilhelm Conrad Roentgen, Germany (1901) irst Nobel Prize winner for Physiology &

Medicine - Emil Adolf Von Behring, Germany (1901) irst Nobel Prize winner for Chemistry - Jacobus

Henricus Van't Hoff, Netherlands (1901)

First Nobel Prize winner for Economics -

honorary degree. His past life is revealed through dreams and a series of flash backs. It is one of the most-influential films in history and is still studied by film makers everywhere. West side Story (1961) USA 151

mins Director: Robert Wise, lerome Robbins Cast: Natalie Wood, Richard Beymer, Rita Moreno, Ned Glass, George Chakris, Russ Tamblyn, Simon Oakland

A musical updating of Shakespeare's Romeo and Juliet to the slums of New York with Tony and Maria trying to find peace and love despite the gang wars between the immigrant Puerto Ricans (The Sharks) and the native New Yorkers (The Jets) going on around them. Winner of Ten Academy awards. Z (1969) France/Algeria 127 mins Direc-

tor: Costa-Gavras Cast: Yves Montand, Jean-Louis Trintignant, Jacques Perrin, Irene Papas, Charles Denner, François Perier. Chilling political thriller based on the true life incident of the 1963 assassination of a left wing Greek deputy. Winner of Academy award for Best foreign language film.

Ragnar Frisch, Norway & Jan Tinbergen, First Nobel Prize winner for Literature - Sully

Netherlands (1969) First person to win two Nobel Prizes - Marie

Sklodowska Curie (first in Physics, 1903 and the second in Chemistry, 1911)

First Pulitzer Winner for Biography - Laura E. Richards, H. Elliott, and Florence Hall for

"Iulia Ward Howe" (1917)

First Pulitzer Winner for History - Jean Jules Jusserand for "With Americans of past and present days" (1917)

First Pulitzer Winner for Reporting - Herbert B. Swope (1917)

First black to receive the Nobel Peace Prize -Ralph Bunche (1950)

First Indian to win Nobel Prize in Literature -

First Indian to win Nobel Prize in Literature -Rabindranath Tagore. He was also the first Asian to get the prize (1913)

First Indian to win Booker Prize - Arundhati Roy. For 'The God of Small Things' (1997)

First Indians to win Bharat Ratna - Dr. S. Radhakrishnan, C. Rajagopalachari, and Dr. C.V. Raman (1954) First Indian to win Dadasaheb Phalke



Award - Devika Rani Dr. S. Radhakrishn: (1970)

First bank in the world - Egibi bank founded in Babylon during the period of Nebuchadnezzar (605 - 562 BC)

First talkie movie in the world - "The Jazz Singer" (1927)

First Oscar winner for the Best Actor - Emil Jannings (1928)

First black actor to win an Oscar in a major category - Sidney Poitier. It was for his role in the film, "Lilies of the Field" (1964)

First Indian Oscar winner - Bhanu Athaiya, For Best Costume Design for the film 'Gandhi' (1982)

First Indian Oscar nomination for Best Foreign Language Film - Mother India (1957) First criminal to be executed by electrocution - William Kemmler in Auburn Prison of New York (1890)

First skyscraper in the world - Home Insurance Building, Chicago, Illinois. William LeBaron Jenny was the architect of this 10 storey, 138 ft., building (1885)

First magician to perform the magic of sawing a woman in half - Count de Grisley (1799)

First aerial photographers in the world -Samuel Archer King and William Black, They made two photos of Boston (1860) Hampshire (1495)
First direct transfusion of blood - performed
by Richard Lower, English physician and
physiologist (1666)

First dry dock in the world - Portsmouth,

First person to be convicted by the process of DNA fingerprinting - Colin Pitchfork (1988)

First person to be exonerated by the process of DNA fingerprinting - Richard Buckland (1988)

First person to be executed by the guillotine
- Nicolas J. Pelletier (1792)

First President of ADB-Takeshi Watanabe (1966)

First Beauty Contest in the world - Started by Cypselus, the King of the Greek City of Korinth. It continued for centuries (700 BC) First cloned mammal - Dolly, the lamb (1996) First sex-change operation in the world - George (Christine) Jorgenson (1952)

First human heart transplant was performed by - Dr. Christian Barnard (1967)

First human heart transplant recipient. - Louis
Washkansky. He lived only 18 days with
the new heart (1967)

First recipient of a permanent artificial heart
- Barney Clark (1982)

First artificial pacemaker implant into a human - By a Swedish team using a pacemaker designed by Rune Elmqvist . The patient was Arne Larsson (1958)

First test tube baby - Louise Brown. In Lancastershire, England. Patrick Christopher Steptoe, English obstetrician, together with Robert Edwards, biologist, succeeded in this first human in vitro fertilization (1978)

First Indian Test tube baby - Harsha, at KEM hospital Mumbai. Indira Hinduja was the doctor (1986)

Parkinson's disease was first described by James Parkinson, British neurologist (1817)
Hodgkin's disease was first recognized by Thomas Hodgkin, English physician. He

802 people & events

(entre-NSCN (I-M) ceasefire extension in

Manipur. 27 Centre decides to restrict the four-year-old agreement in Nagaland, taking into account

the violent protests in Manipur • Police arrest prime suspect in the Phoolan Devi murder case, Sher Singh Rana (Pankaj Singh) who reportedly confesses to crime to avenge the massacre of 22 Thakurs in Behmai in 1981 • 'Red showers' reported in some parts of Kerala, where collapse and disappearance of wells has been causing concern for some time.

schools by 50%. • Centre orders probe into alleged use of 'banned drugs' by RCC, Trivandrum for conducting efficacy tests • Centre for Earth Science Studies attributes 'red rain' in Kerala to meteordust. 31 PM AB Vajpayee, responding to criticism of his regime from within BJP and NDA, threatens to resign • T Nadu CM Jayalalitha writes to CMs on Centre's transferring Al-India service officers, ignoring State's priorities . PMO denies officials' involve-

30 Maharashtra govt.stays its earlier decision

to downsize grants to English medium

August

defrauded the public.

Milkha Singh Rejects Arjuna Award

ment in UTI's investment in Cyberspace

Infosys, the Lucknow company which

"UTI US-64 scheme's repurchase for small investors begins • Five-time National Chamion Bhagyashree Thipsay wins 28th Na-

al Women's 'B' Class Championship. dia Post launches e-post • Adjournment motion by Opposition on the UTI muddle defeated • Puellela Gopichand to receive Rajiv Gandhi Khel Ratna award • SC ruling

that convicted persons should not hold office till their names were cleared. 03 An Additional DGP of Punjab gets life term for murder of a businessman . Railway concession to senior citizens made optional • All issues relating to UTI to be considered by JPC on stock scam.

05 Ten (8CRPF jawans) killed in landmine blast in Assam, suspected to be planted by NDFB militants.

06 27 mentally ill persons killed in a fire in an asylum at Erwadi, T. Nadu.

07 Militants kill five persons at Jammu rail-

treatment of HIV/AIDS exempted from customs and excise duties . Govt. to allot the 6000 Internet kiosks to unemployed persons only . Controversy over Govt.'s decision to include the 'child prodigy' Thataghat Avtar . Tulsi of Patna in the delegation of young scientists who were sent to Germany in June for an interaction with Nobel laureates in Physics • Rubber prices touch a four-year high at Rs 38 per kg for RSS4 • Standard &Poor's downgrades India rating.

· way station • Certain drugs used in the

08 Controversy over the hanging in public of creation of a Ministry of Earth Sciences · Chhattisgarh HC bans the use of national symbol of Ashoka Chakra for seal-

two Muzaffarnagar (UP) lovers Vishal and Sonu belonging to different castes • USA restores duty-free benefits to India on 42 products including jewellery, leather and carpets . Cabinet approves commence-· ment of Pradhan Mantri Gram Sadak Yojna (PMGSY) as a100% Centrally-sponsored scheme . GSI D-G Ravi Shankar calls for

ingliquor bottles sold in state-owned shops.

-09 Home Minister Advani unveils new plan to meet the terror challenge in J&K Credit rating agency Moody's lowers India's foreign currency outlook.

10 Railway stations to host ATMS • Scientists are still clueless on Kerala's red rains and other phenomena. 11 UP's Loktantrik Congress Party splits, En-

disrupt Aug.15 celebrations.

ergy minister Naresh Agrawal expelled W.Bengal Govt. not to allow courses in astrology . Reports say PM and Home Minister are on Pak-backed terrorists' hit list • suicide squad despatched to Delhi to

13 Govt. gives extension to some of the BSRBs beyond July 31 deadline . SC notice to Centre & AP on a petition filed by Karnataka seeking a direction to AP not to go ahead with Telugu Ganga and Srisailam projects utilising surplus water of the Krishna • Former junior national tennis player S. Kartik Raj (kidnapped) killed by abductors . Railways inform Kerala HC that the Gurudev Express

and Amritha Express were not named after any individual-'Gurudev', as a respect to the. preceptors or acharyas, and 'Amritha' after the Sanskrit word Amritham (nectar or elixir) 10 countries including Russia and France publicly express support for India's

802 people & events

Centre-NSCN (I-M) ceasefire extension in

Manipur 27 Centre decides to restrict the four-year-old agreement in Nagaland, taking into account the violent protests in Manipur • Police arrest

prime suspect in the Phoolan Devi murder case, Sher Singh Rana (Pankai Singh) who reportedly confesses to crime to avenge the

massacre of 22 Thakurs in Behmai in 1981 • 'Red showers' reported in some parts of Kerala, where collapse and disappearance of wells has been causing concern for some time.

30 Maharashtra govt.stays its earlier decision to downsize grants to English medium schools by 50%. • Centre orders probe into alleged use of 'banned drugs' by RCC, Trivandrum for conducting efficacy tests • Centre for Earth Science Studies attributes 'red rain' in Kerala to meteordust.

31 PM AB Vajpayee, responding to criticism of his regime from within BJP and NDA, threatens to resign • T Nadu CM Jayalalitha writes to CMs on Centre's transferring Al-India service officers, ignoring State's priorities . PMO denies officials' involvement in UTI's investment in Cyberspace Infosys, the Lucknow company which detrauded the public.

August

Milkha Singh Rejects Arjuna Award

"TUS-64 scheme's repurchase for small tors begins . Five-time National Chamhagyashree Thipsay wins 28th Na-

Women's 'B' Class Championship. ia Post launches e-post • Adjournment notion by Opposition on the UTI muddle defeated • Puellela Gopichand to receive Rajiv Gandhi Khel Ratna award • SC ruling that convicted persons should not hold office till their names were cleared.

An Additional DGP of Punjab gets life term for murder of a businessman • Railway concession to senior citizens made optional • All issues relating to UTI to be considered by JPC on stock scam.

Ten (8CRPF jawans) killed in landmine blast in Assam, suspected to be planted by NDFB militants.

06 27 mentally ill persons killed in a fire in an asylum at Erwadi, T. Nadu.

07 Militants kill five persons at Jammu rail-

way station . Certain drugs used in the treatment of HIV/AIDS exempted from customs and excise duties . Govt. to allot the 6000 Internet kiosks to unemployed persons only . Controversy over Govt.'s decision to include the 'child prodigy' Thataghat Avtar . Tulsi of Patna in the delegation of young scientists who were sent to Germany in June for an interaction with Nobel laureates in Physics • Rubber prices touch a four-year high at Rs 38 per kg for RSS4 • Standard

&Poor's downgrades India rating. 08 Controversy over the hanging in public of two Muzaffarnagar (UP) lovers Vishal and Sonu belonging to different castes • USA restores duty-free benefits to India on 42 products including jewellery, leather and carpets . Cabinet approves commencement of Pradhan Mantri Gram Sadak Yoina (PMGSY) as a100% Centrally-sponsored scheme • GSI D-G Ravi Shankar calls for creation of a Ministry of Earth Sciences Chhattisgarh HC bans the use of national symbol of Ashoka Chakra for seal-

ingliquor bottles sold in state-owned shops. 09 Home Minister Advani unveils new plan. to meet the terror challenge in J&K · Credit rating agency Moody's lowers India's foreign currency outlook.

10 Railway stations to host ATMS • Scientists are still clueless on Kerala's red rains and other phenomena.

11 UP's Loktantrik Congress Party splits, Energy minister Naresh Agrawal expelled W.Bengal Govt. not to allow courses in astrology . Reports say PM and Home Minister are on Pak-backed terrorists' hit list • suicide squad despatched to Delhi to disrupt Aug.15 celebrations.

13 Govt. gives extension to some of the BSRBs beyond July 31 deadline • SC notice to Centre & AP on a petition filed by Kamataka seeking a direction to AP not to go ahead with Telugu Ganga and Srisailam projects utilising surplus water of the Krishna . Former junior national tennis player S. Kartik Raj (kidnapped) killed by abductors . Railways inform Kerala HC that the Gurudev Express and Amritha Express were not named after any individual-'Gurudev', as a respect to the preceptors or acharyas, and 'Amritha' after the Sanskrit word Amritham (nectar or elixir) 10 countries including Russia and France publicly express support for India's

earning at the SPEEd of thought with

India's No.1 Interactive Educational Portal

- Animated text books.
- Interactive SCIENCE and MATHS lessons from 6th std. to 10th std.
- Text from Tata McGraw Hill & Orient Longman.
- Premium content for CBSE syllabus.
- Plenty of interactive features.

Aban Informatics Pvt. Ltd., 'Janpriya Crest', No. 113 (Old no. 98), d, Egmore, Chennal - 8. Phone: 8222



With Best Complements from

Post Box No 21, 127, Parryur Road Gobishettipalayam Erode District, Tamilnadu Ph (Off.) (04285) - 22128 Dr m (Approved by Govt of Tamilhadu and Affiliated to Bharathiar University)

The following Courses are offered

B Sc. Computer Science

2 B Sc Maths

3 B Sc Physic

B.C.A B Com

4.

8 B Com C A

5 BBM

6 BCS.

804; people & events

OUS! LAAbie or CACITO

candidature for permanent membership of UN Security Council.

- 14 Lokpal Bill introduced in LS for the eighth
- 15 Krushi Cooperative Union Bank, Secunderabad in trouble • Independence Day celebrated in Delhi, where PM addresses the nation.
- 16 Milkha Singh rejects Arjuna award PM Vaipayee says India has arrived at a broad framework with Pakistan to continue the dialogue, adding that Pakistan would not raise Kashmir issue in international conferences . Explosion in State-owned explosives factory at Christianpet near Katpadi (T-Nadu) kills 22 persons • LS passes bill empowering Pondicherry and
- Delhi to borrow from the market. 17 In Assam, P.K. Mahanta, AGP supremo, hands over charge after a scandal about his 'extramarital relationship' . SC rules that no one can be a minister for more than six consecutive months without becoming a member of the Legislature concerned during the term of that Assembly . Centre-State relationship is not a 'master-slave' relationship, says Jayalalitha who turns down Centre's request
 - to relieve 3 IPS officers . Bill on MPs' salary hike cleared—salary to be tripled to Rs. 12000 ~ • BIFR to be wound up, company Law al to take its place.

Liserves that foodgrains overflowing rCl godowns must reach the starving , reople and not be wasted by being dumped in the sea or eaten by rats . Naxalites kill 10 policemen in Guntur blast.

- 21 US Patents and Trademarks Office upholds the Texas-based rice breeder RiceTec Inc's controversial patent on 'superior' strains of basmati rice • Pusa Rice Hybrid-10, a hybrid basmati rice developed by IARI released for commercial seed production, making India the first country to develop
- a hybrid strain of basmati. 22 Lok Sabha session disrupted by scenes on
 - the alleged use of women as 'honey traps' by tehelka.com in its bid to expose corrup-
- 23 Home Ministry to enquire whether the news portal tehelka.com had violated the law in • Arafat in India, in the context of India being asked by the two West Asian adversaries to revive their peace talks • All-party meeting

- convened by LS Speaker decides to penalise members moving to the well of the House.
- 24 Samata Party and BJP rally for legal action against Tehelka.
- 26 Weightlifter Kunjarani Devi tests positive for a banned drug, suspended from intl. events for six months . Forex reserves rise to \$44,590 b.
- 27 Trinamool Congress and PMK are back in National Democratic Alliance • India declines to equate Zionism with racism - a position to be taken at the UN meet on racism at Durban • NHRC asks Orissa govt. to prevent starvation deaths.
- 29 Railway fares to be hiked from Oct.1 to facilitate faster modernisation of its overaged assets to ensure greater safety . Koneru Humpy wins World junior girls' chess championship in Athens.
- 30 Govt. to set up Defence Acquisition Council (DAC), with a Defence Procurement Board, a Defence Production Brand and a Defence Research and Development Brand under it • Parliament approves Indian Divorce (Amendment) Bill 2000 to give Christian women right to seek marriage annulment • Manipur women resent directive by underground outfit KYKL (Kangjamba) asking women not to wear saree, salwai and trousers . Country's first Cyber Crime Police Station set up at Bangalore.
- 31 Orissa govt claims there were no starvation deaths in Kashipur block (Rayagada dist.).

September

Starvation Deaths in Orissa?

- 01 National Conference and UDF of Meghalaya join Congress and Left partial in rejecting BJP-led NDA govt's all attempts to 'saffronise' education • (net changes: six new faces -five exch two promoted-now cabinet is 76 strc Hurriyat leader Yaseen Malik allowed abroad for two months . NDC appr 10th plan approach paper aimed at 8 cent growth . Deadline for women Kashmir Valley to wear burga extende
- 10 days by militant outfit Lashkar-e-Jab 03 SC pulls up several States for starval deaths • SC issues notices to HRD min and UGC on petition about a astrology course in

tax pavers in India to increase from 25m. assesses to 35m. by end of the fiscal year. 04 Manipur Assembly to be dissolved • In

you heather or evering

Assam, P.K. Mahanta quits as AGP chief-a

sequel to controversy over his alleged 'second marriage'.

06 SEBI comes out with a six-point strategy to check scams • SC observes that constitu-

tion is supreme, and the 'will' of the people

must stand subordinate to it • Orissa CM says there were no starvation deaths in Kashipur. The 20 deaths in July-Aug. were Goswami is new AGP President (Assam).

due to food poisoning • Brindaban University of Ujjain (MP)

07 A course on astrology introduced in Vikram 08 Kashmir's Laskkar-e-Jabbar asks non-Muslim women to adopt a new dress code so that they are spared from the 'action' to be taken against Muslim women not observ-

ing 'purdah' after Sept. 09 CII projects a 5.25 per cent growth for current fiscal . Record procurement during recent years increases stocks of foodgrains from 200 lakh MT in Jan. '97 to 616 lakh MT in July, 2001 10 Rupee dips to an all time low of Rs. 47,35

a dollar. 11 Manipur Assembly, under suspended animation since early June, dissolved • Sensex hits 32-month low at 3150. 12 SC says Sonia Gandhi is an Indian citizen. 13 Sensex yields 45 points to dip below 3000 at

2987.50 • 250 Indians feared missing following terrorist attacks on WTC, New York. India ups its level of support to the anticipated US action against Afghanistan. Sensex touches 2681, an 8-year low. By-elections for 2LS and 7 Assembly seats 'Food Parks' (food processing units) to be set up in Himachal Pradesh. RBI hikes investment limit in companies

for FIIs • SC directs States&UTs to strictly

implement provisions of Pre-Natal Diagnostic Techniques Act and to prosecute

those aiding identification of sex foetus illegally • ADB approves \$240m. loan for India's road system • Jharkhand approves 73p.c. reservation for SC,ST and Backward Castes in Govt. jobs • Senates of all 6 varsities in Karnataka abolished w.e.f. Sept.13 when Karnataka Universities Act come into force • Puri Sankaracharya says

temples should be opened to non-Hindus.

21 Sensex plunges to 2600 losing 23 points in a week, one of the lowest in past eight years. 23 M.P. Govt. to set up a tribal museum in

Bhopal • Centre to finance Bangalore's Metro Rail Project • Karimnagar Zilla Parishad passes resolution favouring statehood for Telengana, amid protest from

TDP&BIP members.

and A.P . Medha Patkar's hunger strike at Azad Maidan (Mumbai) enters 9th day, as

Maharashtra govt. decides to convert 73

forest villages into revenue villages to

cure land titles . A.P.High court allows

26 Roorkee 'varsity' made IIT • Intl. Film Festival of India scheduled for Oct. cancelled.

27 Centrebans radical Students Islamic Move-

ment of India (SIMI) • Medha Patkar ends

11-day hunger strike following assurance

help Sardar Sarovar displaced people se-

24 Chennai rocked by an earthquake (5.6) 25 Light tremors (5.6) in T.Nadu, Karnataka

on rehabilitation of Sardar Sarovar Project oustees. 28 Centre moves to exit Maruti, and Maruti plans entering insurance • SC says amounts

Vengaboys show.

paid by in-laws to husband cannot be termed as dowry unless such payments are made in connection with the marriage • Centre says SIMI had links with Al Qaeda. 29 Jagmohan Dalmiya is new BCCI President

 Record Kharif output of 105.6m tonnes expected this year . World Bank clears \$913.8m. loan for India 30 Madhavrao Scindia, deputy LS leader of Congress, former Union Minister and a senior-

most congressman dies, in the crash of a 10-

seater cessna aircraft near Motta, with seven

Assembly, gunbattle follows, 31 killed-Jaish-

e-Mohammad claims responsibility . Rupee

others including four journalists. October

Militants storm J&K Assembly

01 IA to levy insurance surcharge of Rs. 100 per sector of travel . Suicide squad storms J&K

is 47.98 against dollar • Indians killed in WTC attacks put at 250. 04 BJP General Secretary Narendra Modi asked to form new Govt. in Gujarat after Keshubhai Patel resigns.

• 05 Centre decides to sell its majority stake in

- CMC&HTL, amounting to Rs. 207cr.

 7 VHP opposes demand for ban on Bajrang
 Dal In Srinagar, the rebuilt Charar-eSharief shrine is opened Narendra Modi
 sworn in CM of Gujarat.
- **08** Rupee at record low of 48.1250 against USS.
- Year-long Jaiprakash Narain birth centenary celebrations begin • HLL to issue bonus debentures-the first time in India.
- 12 Bandh in Srinagar and Delhi protesting US attacks in Afghanistan Venkataswami Commission says the Tehelka tapes are genuine India wants Dawood Ibrahim's name to be included in US list of 22 most wanted suspected terrorists Air India shuts down 20 foreign stations.
- 13 It is reported that a genetically modified variety of cotton has been illegally cultivated on about 10,000 hectares in Gujarat

 Plot by underworld Abu Salem gang to kill film star Aamir Khan and three others foiled.
 - 14 Adivasi-Dalit Action Council Chairperson CKJanu threatens to go on fast unto death to intensify the stir for cultivable land in Kerala's Wayanad district.
 - 15 George Fernandes, who resigned after Tehelka incident seven months ago, is back in Cabinet as Defence Minister, and Harin Pathak is inducted as Minister of St. for Defence. Congress President calls reinduction 'shameful' Indian troopsshell Pak posts in Mendhar and Akhnoor sectors of J&K, after 10-month lull Kerala to distribute 1046 acres of excess land SC says States and Varsities cannot dilute standard set by Medical Council of India Pak President says Kashmir is at the heart of
- 16 48-day Adivasi agitation under C.K. Janu in Trivandrum ends with an agreement that would provide land to all landless Adivasis in Kerala • Colin Powell, U.S Sec. of St., in Delhi • National Commission for SC&T directs Chhattisgarh govt. to cancel the ST certificate obtained by CM Ajit Jogi.

Indo-Pak tensions.

- 17. Sensex crosses 3000-mark VHP leaders force entry into disputed site in Ayodhya
 VHP activists storm the makeshift temple at Ayodhya.
- US-based Carnegie Mellon 'Varsity to pull outfrom India's Rs. 1000 cr. Sankhya Vahini
 Heavy exchange of fire along LoC SC

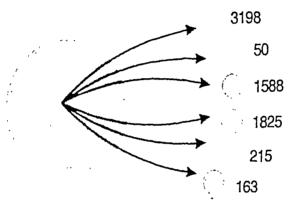
- says ownership of a deceased husband's property vests in his widow as she succeeds him as heir.
- 19 Govt. to go ahead with Sankhya Vahiniproject • N. Rangaswamy to be new Pondicherry CM.
- 21 Naxalites blast some units of Coca Cola bottling plant at Atmakur (A.P.) India wins the world junior hockey championship at Hobart AIADMK leads in T. Nadu municipal elections.
- 22 RBI (in mid-term review of monetary policy) marks down Bank Rate to 6.5 (from 7 per cent) and CRR to 5.5 (from 7.5%) in two stages ISRO's PSLV (PSLV-C3) launches three satellites into orbit Chhattisgarh HC stays the implementation of NC for SC& T's order dismissing CM Ajit Jogi's claim to be a tribal Suicide of 12 farmers in the past year reported in Kerala's Palakkad district, resulting from crash in prices of paddy and other commercial crops.
- 23 Japan to lift sanctions on India Govt. to sell six ITDC hotels • Cabinet okays sell-off of HZL, ITDC and HCI.
- 24 Indo-Tibetan Border Police celebrates its 40th Raising Day • Win Chadha, key accused in Bofors payoff case, dies • Ordinance to counter terrorism (POTO), considered tougher than TADA, gets presidential clearance.
- 27 Communal violence in Malegaon.
- **28** German Chancellor Gerhard Schroeder in Delhi.
- 29 Uttaranchal CM Nityanand Swami resigns
 Bhagat Singh Koshiari elected Uttaranchal
 CM Centre decides to switch over from a
 secret to an open ballot for elections for
 Rajya Sabha.
- 31 Koneru Humpy wins the 3rd Saturday GM chess tournament.

November

No Smoking in Public Places

- 01 S.P. Bharucha is the new CJI P.T. Usha conferred honorary doctorate by Kannur University,
- **02** SC bans smoking in public places Govt. says POTO (Prevention of Terrorism Ordinance) is superior to TADA.
- 04 Lagaan nominated as India's entry for Os-

TMB TODAY



TMB has always been excelling in its performance, exceeding the target everytime, year after year. This is reflected in this year's achievement too!

Deposits

Net Profit

Advances

Forex Turnover

Per Employee Business

Total Number of branches Computerised branches Rs. 3195 Crare

Rs. 50 Crare

Rs. 1588 Crore

Rs. 1825 Crore

: Hs. 215 lakh 163

85%



TAMILHAD MERCANTILE BANK LTD.

57, VE. ROAD, TUTICORIN 628 002.
Visit us at: www.tamilnadmercantilebank.org.in

TOTALLY MOTIVATED BANK

Foreign Secretary: Ms. Chokila Iyer

Home Secretary: Mr. Kamal Pande Secretary, UPSC: Mr. Navin B. Chawla

Secretary, UPSC: Mr. Navin B. Chawi Chairman, ABC: Mr. Ravi Kant

Chairman, Atomic Energy Commission:Mr. Anil Kakodkar

Chairman, CBSE: Mr. Ashok Ganguly Chairman, Central Administrative Tribunal

(CAT): Mr. Justice Ashok Agarwal Chairman, Central Board of Direct Taxes: Mr.

O.P. Srivastava Chairman, Central Board of Excise and Cus-

toms: Mr. K.L. Verma Chairman, Central Board of Film Certification:

Mr. Vijay Anand
Chairman, Central Electricity Authority: Mr.
R.N. Srivastava

Chairman, FICCI: Mr. Chirayu R. Amin

Chairman, Food Corporation of India: Mr. Bhure Lal

Chairman, Foreign Inv. Promotion Board: Mr. V. Govindarajan

Chairman, İndian Airlines: Mr. Sunil Arora Chairman, Indian Council of Social Science Research: Mr. M.L. Sondhi

Chairman, ISRO: Prof. Krishnaswamy Kasturirangan

Chairman, Law Commission: Mr. Justice B.P. Jeevan Reddy

Chairman, Life Insurance Corporation of India: Mr. G. N. Bajpai

airman, NASSCOM: Mr. Kiran Karnik nairman, National Book Trust: Dr. S.R. Nadig

Chairman, National Commission for Minorities: Mr. Justice M. Shamim

Chairman, National Commission for SCs and STs: Mr. Dileep Singh Bhuria

Chairman, Prasar Bharati Corp: Prof. U R Rao Chairman, Press Council of India: Mr. Justice K. Jayachandra Reddy

Chairman, Press Trust of India: Prof. E.V.

Chairman, Railway Board: Mr. R.N. Malhotra Chairman, Sangeet Natak Akademi: Dr. Bhupen Hazarika

Chairman, Securities & Exchange Board of India: Mr. D.R.Mehta

Chairman, State Bank of India: Mr. Janki Ballabh

Chairman, Tariff Comn: Mr. A.K. Kundra

Chairman, UGC: Dr. Hari Pratap Gautam Chairman, United News of India: Mr. Arun Arora

Chairman, UPSC: Lt. Gen (retd.) Surinder Nath Chairman, UTI: Mr. M. Damodaran

Chairman, UTI: Mr. M. Dambdatan
Chairperson, Central Social Welfare Board: Ms.
Mridula Sinha

Chairperson, Children's Film Society of India: Ms. Jaya Bachchan

Chairperson, National Commission for Women: Ms. Vibha Parthasarathy

Chief of Integrated Defence Staff: Lt. Gen. Pankaj Joshi

CMD, IDBI: Mr. P.P. Vohta Director, CBI: Mr. P.C. Sharma Director, Intelligence Bureau: Mr. K.P. Singh Director, NCERT: Prof. J.S. Rajput

Director, Press Institute of India: Mr. Ajit Bhattacharjea

Director, Research and Analysis Wing: Mr. V.K. Sood

D-G, Border Roads Organisation: Lt. Gen. A.K. Puri

D-G, BSF: Mr. Gurbachan Jagat D-G, Coast Guard: Vice Admiral O.P. Bansal

D-G, CRPF: Mr. Trinath Mishra D-G, CSIR: Mr. R. A. Mashelkar

D-G, ICMR: Prof. N.K, Ganguly

D-G, Ordnance Factories & Ch., Ordnance Factory Board: Mr. S.K. Mohanty

President, Assocham: Mr. Raghu Mody President, BCCI: Mr. Jaymohan Dalmiya

President, CII: Mr. Sanjiv Goenka President, Editors' Guild of India: Mr. Mammen

Mathew President, Indian Newspaper Society: Mr. Vijay

Kumar Chopra

President, Indian Olympic Association: Mr.

Suresh Kalmadi
Registrar-General & Census Commissioner: Mr.

Registrar-General & Census Commissioner: Mr. J. K. Banthia

Ambassador to USA: Mr. Lalit Mansingh · Ambassador to Russia: Mr. Krishnan

Raghunath

Ambassador to China: Mr. Shivshankar Menon

Ambassador to Germany: Mr. Ronnen Sen High Commissioner to UK: Mr. Nareshwar Dayal

India's Permanent Representative to the UN: Mr. Kamalesh Sharma

Obituary 2001 World

January

14. Fali Billimoria, 78, documentary film maker.

February

7. Anne Lindbergh, writer, copilot and widow of aviation pioneer Charles Lindbergh. 19. Charles Trenet, 87, France's celebrated 'Singing Madman', entertainer for over half a century; Stanley Kramer, 87, Hollywood Director. 21. Dr. William H. Masters, 85, sex therapy pioneer. 24. Dr Claude Simmon, 84, mathematical engineer who first conceived the idea that all information could be reduced to a stream of ones and zeroes. 25. Sir Donald Bradman, 92, Australian cricketer, who amassed 6996 runs at an average of 99.94.28. Gin Kanie, 108, one of the twin sisters to become famous as Japanese centenarians.

March

4. Harold Stassen, 93, who was governor of Minnesota at 31 and tried on nine occasions, without success, to become US President. 15. Robert Ludlum, 73, writer of thrillers. *The Bourne trilogy*. 18. Leopold Page, 87, Holocaust survivor whose zeal led to publication of Schindlers' List. 21. Chung Ju-Yung, 85, founding chairman of Hyundai group of S. Korea; . 22. William Hanna, 90, animation legend. 24. avid McTaggart, 69, Canadian co-counder of

April

1. John Lewis, 80, jazz pianist. 16. Mullah Mohammad Rabbani, deputy of the Taliban. 21. Jack Haley Jr., 67, Hollywood producer, actor, writer, former husband of Liza Minnelli. 29. Babu Tshering of Nepal, who climbed Everest 11 times.

environmental pressure group 'Greenpeace'.

May

9. Nicos Sampson, 66, President of Cyprus for eight days. 17. F.J. Khergamvala, 54, journalist covering international affairs, former IFS officer. 18. Sean MarStoifain, 73, provisional IRA's chief of staff. 26. Albert Korda, 73, renowned Cuban photographer.

June

1. King Birendra, 55, Queen Aishwarya, 51, and six other members of the royal family (assassinated); Nkosi Johnson, 12, AIDS activist, a potent symbol after being labelled the longest living AIDS child, 2. Henry 'Hank' Ketcham, 81, creator of Dennis the Menace. 3. Anthony Quinn, 86, Oscar winning actor (Zorba the Greek, Lawrence of Arabia); 4. King Dipendra, 29, King of Nepal for 3days (declared king while battling for life); 5. K.T. Li, 91, Taiwan's father of technology, one of the architects of island's economic development. 10. Princess Leila Pahlavi, 31, daughter of the late Shah of Iran; 12. Chenjerai Hunzvi, 51, of Zimbabwe, who spearheaded the violent occupation of hundreds of white-owned farms in 2000, nickname, Hitler. 28. Jack Lemmon, 76, American actor, Two Oscars. 50 year film career. Some Like it Hot, The Apartment.

July

3. Baharuddin Lopa,66, Attorney-General, Indonesia. 5. Mrs. Hannelore Kohl, 68, wife of former German Chanceller Kohl (suicide).15. Uzaemon Ichimura, 84, Kabuki artist.18. Mrs. Katherine Graham, 84, chief of Washington Post, who relentlessly pursued the Watergate scandal; Christ Has, 57, Austrian skiing champion. 20. Roy Gilchrist, 67, W. Indian cricketer who was the fastest bowler of his time.23. Eudora Welty,92, American writer of the so-called Southern School.

August

6. Jorge Amado, 88, Brazilian author; Dame Dorothy Tutin, 70, British stage and screen actress. 9. Maureen Reagan, 60, Ronald Reagan's daughter. 17. Richard Chelimo, 29, Kenya's former 10,000m. World record holder. 20. Donald Woods, 67, S. African anti-apartheid newspaper editor; Fred Hoyle, renowned astrophysicist 30. Govan-Mbeki, 91, great leader of the liberation struggle in S. Africa, father of President Thao Mbeki.



HANDWRITING

Improvement Course Book (Unique Calligraphic System)

Price of book Rs. 75/-

75/-

+ Postage RS. 24/-

(MO, PO, DD)

Direct Class - Rs. 300/-Postal Course - Rs. 350/-Abroad - Rs. 700/-

 Beautiful handwriting in just a few hours

No age limit

Classes will be taken in schools on school authority's request

Franchisees required in all districts of Kerala for conducting personal classes Interested parties may contact

Arrangements for personal classes also Class time: Daily 1 hour, total 10 hours



April

6. Devi, Lal, 87, former Deputy PM. 7. G.N. Ramachandran, 79, scientist. 8. Behram Contractor, 70, journalist known as 'Busy Bee'. 12. Dewang Mehta, 38, NASSCOM chairman and 'software evangelist' 17. Sadiq Ali, 93, Gandhian and former Governor of T.Nadu and Maharashtra. 23. Jayantrao Tilak, 80, Parliamentarian, grandson of 'Lokmanya' Tilak. 24. Shailesh Matiyani, 70, Hindi fiction writer. 26. Ms Chaya Devi, 80, romantic heroine of yesteryears. Over 150 films.

May

8. Prem Dhawan, 78, film lyricist, Ae Mere Pyare Watan. 12. R.K. Narayan, 94, outstanding Indo-Anglian writer, the master story teller famous for Malgudi Days, brother of cartoonist R K Laxman. 14. Didi, 71, footballer. 25. Vishwasrao (Babu Kunte), 93, Marathi actor and social worker. 26. Jagdish Gupta, 76, Hindi litterateur.

June

3. Shivraya Dungappa Shiroor, 98, freedom fighter, follower of Gandhiji and BR Ambedkar 5. P.P. Vaidyanathan, 77, creator of famous jingles for various products; 17. Mohammad Yunus, 85, diplomat, former chairman of TFAI, nephew of Frontier Gandhi. Hanumantha Rao, 84, senior Marxist leader. 19. C.R. Pattabhi Raman, 94, former Union Minister; Donald Cram, 82, Nobel prize-winning chemist. 20. Pallavur Manian Marar, 60, panchavadyam artiste; 21. K.V. Mahadevan, 83, music-director. 22. Dr. Arun Ghosh, 78, economist, formerly India's Dy. Director at IMF. 24. A.S. Raman, 82, writer and former editor of Illustrated Weekly of India, 26. G. Ramanujam, 86, former Governor of Goa and Orissa and veteran trade union leader.

July

9. Victor George, 45, chief photographer, Malayala Manorama, 21. Shivaji Ganesan, 73, veteran actor. Over 300 films in 50 years. Padma Shri, Padmabhushan, Phalke award, 25. Phoolan Devi, 38, M.P and former 'Bandit Queen'.

August

1. Begum Kudsia Aizaz Rasul, 97, Congress leader and member of the constituent assembly. 6. Admiral A.K. Chatterji, 87, former Chief of Naval Staff.30. G.K. Mooppanar,70, veteran Congressman, TMC President, 'Kingmaker in

Jamilnadu:A.P. Kurien, 70, former Kerala Speaker and CPI(M) leader.

September

3 Justic S. Rangarajan, 84, former Chairman of MEIP commission; 27. Kotla Vijaybhaskar Foldy, S1, Congress leader and former CM of Mr. 30. Madhavrao Scindia, 56, senior Concress leader and former Union Minister.

October

LSurendranath Dwivedi, 89, freedom

fighter and former Arunachal Governor. 8. Sankarady, 77, Malayalam film actor, over 700 films. 24. Win Chadha, 77, Dubaibased businessman, key accused in Rs. 64 cr. Bofors payoff case. 27. Pradeep Kumar, 76, Hindi film actor, Tajmahal, Anarkali.: Maragatham Chandrasekhar, 85, senior Congress leader from Tamil Nadu. 29. K.P. Ummer, 70, Malayalam actor. 31.B.K. Nehru, 92, diplomat, senior-most member of Nehru clan, former Governor of Gujarat.

Stop Press

Awards (contd. from page 470)

Nobel Prizes 2001- Medicine: Leland Hartwell (USA), and Timothy Hunt and Paul Nurse (both UK); Physics: Carl E. Wieman (USA); Iric A. Cornell (USA); Wolfgang Ketterle (Germany); Chemistry: William S. Enowles and K. Barry Sharpless (both U.S.) and Ryoji Noyori (Japan); Economics:

George A. Akerlof (USA), A. Michael Special (USA) and Joseph E. Stiglitz USA: Literature: V. S. Naipaul (Britam): Pence In Annan (Ghana), UN Secretar General To UN (jointly); \$943,000.

Literature: Frankfart E book aver Amitav Ghosh (The Aut Factor) Non-fiction: Steven Law Come 25 Ezhuthachhan Puraskarar

B.Sc (Nursing)



K.V.S. COLLEGE OF NURSING

Approved by INDIAN NERSING COUNCIL (LN.C.) Affiliated to Rajiv Gandhi University of Health Sciences

BCA: BBM.; B.Com.; B.Sc.; B.A.

K.V.S. COLLEGE OF ARTS, SCIENCE & COMMERCE

Affiliated to Bangalore University

Hostel facilities for Girl students centrally located, with easy transportation

Contact The Secretary

K.V.S. EDUCATION SOCIETY

C;; E: [5] / [7] / fireting email: k_v_s@vsnl.com Website: www. kvsinstitutions.com



Vijayan, Rs. 100,000; Booker Prize: Peter Carey ustralia) True History of the Kelly Gang. E21,000.

Music & Arts: Dada Saheb Phalke Award, 2000: Asha Bhonsle-Rs. 200,000; MTV Awards: Europe Music Award-Robbie Williams (Best male singer); Best female singer-Jennifer Lopez; Best R&B Award: David Craig, Best Group: Limp Bizkit; Best dance: Gorillaz. Films: Lagaan- Oscar nomination

Emmy Awards (TV): The West Wing gets 8 awards including Best Drama series; Lead actor (drama) award-James Gandolfini (The Sopranos) Lead actress: Edie Falco; Lead actress (comedy series): Patricia Heaton (Everybody Loves Raymond)

Miscellaneous

Miss World: Agbani Darego (Nigeria).
30th Dhanwantri award: Dr. P.K
Warrier; Rochdale Pioneers Prize (Intl.
Cooperative Alliance): V. Kurien; Grand

Prize (World Academy of Culture): Arundha Roy. \$68, 500; Aga Khan Award for A chitecture 2001: Chairman's award Geoffrey Bawa, (Sri Lanka).

Deepalaya award: K.R. Meera, Malavi ... Manorama.

Maha Vir Chakra: Captain Gurjir Singh Suri (posthumous).

Appointments

Afghanistan: Taliban Govt. ousted. E gladesh:President:Badru-ddoza Chowdh Bulgaria:President: Georgi Parvanov; F Timor: Head of transitional govt: N Alkatiri; Norway: PM: Stoltenberg resige

India-CM: Uttaranchal, Bhagatsi Koshiyari; Chief of Naval Staff: Mavendra Singh; Chief of Air Staff: nivasapuram Krishnaswamy.

Corrections: p186, col.2,para 4. line 6. Rei watts as 1000 watts.

Index

Abbreviations 456-465 Abhimanyu 447 Afghanistan 259 Age, of the Universe 168 Agriculture, Indian 34-42 AIDS 232-233,303 Air Disasters 485 Albania 260 Algeria 260 Al Qaeda 88 Alternative Medicines 510-513 Alzheimer's Disease 238 Andaman and Nicobar Islands 694-696 Andhra Pradesh 630-633 Andorra 261 Angling 756 Angola 261 Animals, World of 211 Annan, Kofi 102, 820 "Anniversaries, Wedding 482 Antarctic Research 594-597 Anti-Dumping 572-576 Antigua & Barbuda 262 Argentina 262 Arjuna 447 Armenia 262 Arroyo, Gloria 108 Aruba 319 Arunachal Pradesh 633 ARpanet 130 . Asian Games, Pusan 740-742 Assam 114,635-637 Asteroid 184-185

Astronomy 165

Athletics 704-710

Atmosphere 197

Awards and Honours

Atolls 195

Australia 263

470-478

Azerbaijan 264

Austria 264

B

Bahamas, The 265 Bahrain 265 Balanced diet 217 Bangladesh 265 Barbados 267 Basic First Aid 236-240 Beauty Queens 481 Belarus 267 Belgium 267 Belize 268 Benin 268 Berlusconi, Silvio 102 Bharat Darshan, 514-524 Bharat Ratna 470 Bhutan 268 - 270 Bihar 637-639 Biodiversity and Species Extinction 256 Biosphere 207-209 Birendra, King 94 Black hole 167 Blair, Tony 106 Blood and Blood Banks 240 Bluetooth Revolution 143 **Body Statistics 220-221** Bolivia 270 Books 449-456 Bosnia-Herzegovina 270 Botswana 271 Bradman, Donald 716 Brazil 271 Brunei 272

C

Cambodia 274 Cameroon 274 Camp David 299 Canada 183, 275 Cancer 234 Cape Verde 276

Bubka, Sergei 705

Budget at a Glance 540

Budget 120, 540

Bulgaria 102,273

Burkina Faso 273

Burundi 273

Carbohydrates 215 Careers 382-403 Caves 200 Cen, African Republic 276 Central Plan Outlay by Sectors 533 Chad 276 Chandigarh 696-697 Chaudhry, Mahendra 289 Chess 742-743 Chhattisgarh 640-641 Chief Election Commission ers 485 Chief Justices 484 Chief Ministers, Women Chiefs of Air Staff 485 Chiefs of Army Staff 485 Chiefs of Naval Staff 485 Chile 276 China 183, 277 Cholesterol 239 Circulatory System 219 Civil Services 386-403 Climate 531 Clothing sizes 249 Coe, Sebastian 706-707 Colombia 279 Comets 177 Comoros 279 Computers 144-150 · Computer virus 151-154 Constitution, India 548-563 Congo 280, 281 Congress Presidents 619 Continental Drift 192 Continents 199 Cook Islands 320 Coordinated Universal Time 246 Copyright 611 Cotal Islands 195

Corruption 289

Costa Rica 281

Cote D' Ivoire 282 🕐

Countries 258-359

Biggest 258

Council, of Ministers 810

ADMI SSIONS

Sheethal Guidelines Stepping into glorious 12th Year

For Proper Guidance for admissions to MBBS, BDS, MDS, BAMS, BNYS, BHMS, MBA, MCA, MSW, LLB, BPT, MPT, BHM, BHS, BPharm, DPharm, B.Sc. MLT, B.Sc. Speech & Hearing, General Nursing & B.Sc. Nursing (Male & Female), B.Sc. Nursing Post Certificate Course, M.Sc. Nursing, M.Sc. Speech & Hearing, Polytechnic & Engineering in all Branches, BBM, BCA, B.Sc. Computer Science, M.Sc. Information Science, B.Sc. Micro Biology, B.Sc. Bioculture, BSW. And also for Degree and Diploma Courses in Interior Design & Decoration, Fashion Design, Garment Design & Leather Design and Various Other Courses in and around Mangalore.

Your Admissions made easy at:

SHEETHAL GUIDELINGS

1st Floor, Topaz Complex, K.S. Rao Road, Mangalore - 575 001. Phone: (O) 0824-441239, 448045

(R) 0824-431843, 431433

Hags 84-85 Smallest 258 Country Symbols 482 Cricket 712 -717 Cricket, Family 720-721 Cripps Mission 616,624 Croatia 282 Cuba 282

Current Affairs, International 86 –108 Current Affairs, National 110 –118 Cyprus 283

Czech Republic 284

D

Dadra and Nagar Haveli 697-698 Daman and Diu 698-699 Dams and Development 576-578 Data Beamers 149 Deep-sea Trenches 201 Defence 579-583 Delhi 692-693 Delphi 293 Denmark 284 Deserts 194, 200,530 Desktop system 147 Diabetes 237 Digestive System 223 Diseases- Deficiency 225 Diseases-Infectious 225 Djibouti 285 Dominica 285 Dominican Republic 286 Drought in Iran 297

e-Education 139-140
'e-Governance 140-142
Earth 190-201
Earth Day 209
Earthquake, Gujarat
110,128
Earthquakes 202-205
Ecuador 286
Education 603-608
Education & Career
382-403
Egypt 286
'Elections, Assembly 112

El Salvador 287 Emoticons 138 ENIAC 134 **Enterprise Resource** Planning 154-162 Environment 589 -592 Environmental Conferences 209 Epidemiology 235 Equatorial Guinea 287 Eritrea 287 Estonia 288 Ethiopia 288 Etiology 234 Events-India 2001 780 India 614-627 World 2001 758-779 Everest, garbage on 318 External Sector, Indian 48-52

F

Fat 215

Fernandez, George 124 Fiji 98, 289 Financial Sector, Indian 52-58 Finland 289 First Aid 236-237 First Aid Kit 236 First War of Independence 615,617 Five Year Plans 58-60 Flags 84-85 Food and Nutrition 214-217 Football 726-734 Foreign Trade, Indian 46-48 France 182, 290 Futsal, Football of the Future 732-734

G

Gabon 290
Galaxies 166
Gambia, The 291
Gandhi-Irwin Pact 623,626
Gandhi, Mahatma 625,626
Gardening 755
Genoa 108
Geology 541

Germany 291 Ghana 292 Glandular System 222 Global Institutional Framework 70-72 Globalisation 62-72 Goa 641-643 Greece 293 **Greeting People 482** Grenada 293 Group of Eight 108 Guatemala 293 Guinea 294 Guinea-Bissau 294 Gujarat 643-645 Guyana 294

Georgia 291

H

Haiti 295 Ham Radio 755-756 Harischandra 447 Haryana 645-647 Heads, Important Offices 814 Health 613 Heart Attack 239 Height Chart 248 High altitude sickness 159 Himachal Pradesh 647-649 Hindu Maha Sabha 622 History 614-627 HIV 232-233 Hobbies 752-756 Hockey 744-745 Honduras 295 Hong Kong 278 Horticulture, India 568-570 . Human Body 218-224 Human Disease 225 Human Genome Project 211-213 Humpy, Koneru 743 Hungary 295 Hydrosphere 195 Hypertension 239

Iceland 296 . IFC-70 IMF-70 Important Days 467-468

ozb index Index 824-832 India 183, 296, 525-702 Climate 531 Constitution 548-563 Current Affairs 110-118 Fconomic Devt. and Population Growth 78-82 Economy 32-60 Facts & Figures 480, 628-629 Foreign Trade 46-48 History 614-627 17 Sector 52 Languages 544-546 National Insignia 531 People 542-543 Population 72-76 Rivers 530-531 States & Territories 628-702 Turbulent Neighbourhood 378-380 Watersheds 530 Indian National Congress 618 Indian Nobel Laureates 477 Indo-Anglian writing 604 Indians Abroad 373-377 Indonesia 98, 296 Industry, Indian 42-46 Intellectual Property Rights 533-539 International Organisations 366-370 International Units 253-255 Internet 130 ternet Country Codes 135 nternet Domains 132 Internet Enabling Technologies 133-138 Internet Guide 612 Internet lingo 136 InterplaNET 133 Inventions and Discoveries .241-245

Iran108, 297

Irag 298

IRA 299

Ireland 298

Islands 195, 200

Ivory Coast 282

Israel 100, 299

~Italy 102, 300

J

Jallianwallabagh 621 Jamaica 301 Jammu & Kashmir 649-651 Japan 183, 301 Jayalalitha 114, 126 Jharkhand 651-653 Johnson, Michael 704-705 Jordan 302 Joyner, Florence Griffith 708

K

Kashmir 124 Kazakhstan 303 Kenya 303 Kerala 656 -658 Khadi 622 Khaleda Zia 96 Khatami 108 Khilafat movement 616,622 Kiribati 304 Koen, Fanny Blankers 708 Korea (North) 304 Korea (South) 305 Kuiper Belt Objects 173 Kumaratunga, Chandrika 100 Kuwait 305 Kyoto Protocol 104 Kyrgyzstan 306

Ł

Lakes 199 Lakshadweep 699-701 Languages, India 544-546 Languages, World 371-372 Laos 306 Latvia 306 Lebanon 307 Lesotho 307 Lewis, Carl 704 Liberia 307 Libya 100,308 Liechtenstein 308 Lithosphere 191 Light Combat Aircraft 120 Lightning 186-189 Lithuania 308 Livestock, India 570-571 Lockerbie 100

Logic bombs 153 Luxembourg 309

M

Macao 279 Macedonia 309 Madagascar 310 Madhya Pradesh 640, 658-661 Maharashtra 661-663 Malawi 310 Malaysia 310 Maldives 311 Male Menopause 162 Mali 312 Malta 312 Manipur 118, 664-665 Map, India 534 Maria of Moon 176 Marshall Islands 312 Matter Facts 250 Mauritania 313 Mauritius 313 Media 608-611 Medicine in the 20th Century 226-228 Medicine, Alternative 510-513 Medicine, Milestones in 244-245 --Medicine, World of 228-232 Megawati 98 Meghalaya 665-666 Melting Point 250 Menopause 162 Meteors 177 Metric System 253 Mexico 313 Micronesia 314 Milky Way 166 MILNET130 Milosevic, Slobodan 104 MIR 178 Mizoram 666-668 Moldova 314 Monaco 314 Mongolia 315 Monsoon 198 Moon 176 Moore's Law 158 Montague-Chelmsford Reforms 616

K.M.J. Education Trust

No. 193, Double Road, Indiranagar 2nd Stage, Bangalore - 560 039 Ph. (080) 5251847, Telefax: 5295342 Website: www.cnkreddycollege.org

K.M.J. College of Nursing

(Affiliated to Rajiv Gandhi University of Health Sciences, approved & recognized by Govt. of Karnataka and Kamataka Nursing Council)

B.Sc. (Nursing)

C.N.K. Reddy College of Business Management
(Affiliated to Bangalore University, approved by AICTE & Govt, of Karnataka)

M.B.A. B.B.M. B.C.A.

Outfillosophy of developing Managers for a liberalized world, where India will have its place of http://is bound to reflect in what we deliver to our students. For the students we idd you to the restymust do India proud. "We are committed to Professionalism".

C.N. Krishna Reddy, MABL, CHAIRMAN

(Ex-Senate, Syndicate and Academic Council Member, Bangalore University)

Your Enterprises can soar sky high with low interest finance from

KERALA FINANCIAL CORPORATION

Enterpreneurs are assured of complete and genuine support in their business endeavours with our wide range of schemes



- ♦ 15% interest with rebate for prompt repayment
 ♦ Loans up to Rs. 500 lakhs
- Flexible approach in collateral security norms
 ★ Escort Services

GENERAL SCHEMES

- Setting up small and Medium Scale industries.
- Expansion/Diversification / Modern ation of existing units
- Tourism and allied activities like hotels impde's amusement parks, hospitals, clinical labs

BITERPRENEUR FREDIOLYSOFIAT

- Working Captal Termican
- e Charl Termitan
- E∂ Baccut ng
- Hire Parthairg
- · Equimentles 17

830 index Plays, Shakespeare 481 Nuclear Research and Morley-Minto Reforms 620 Poland 328 Development 583-585 Morocco 315 PLO 299,324 Numerals 250-253 Moses, Edwin 705-706 Pondicherry 114, 701-702 Numismatics 754-755 Mountains 194 Population, Indian 72-82 Nurmi, Paavo 706 Mountbatten, Lord 625,626 Population, Trends 370 Mozambique 316 Portugal 328 Muscles 222 0 Poverty, India 566 Mushairat, Pervez 90 Presidents & Vice Obituary 2001 Myanmar 316 India 820 Presidents, US 480 Mythological Characters World 818 Presidents, India 484 447-448 Oceans 196 Prime Ministers, India 484 Olympiad, Physics 296 Prime Ministers, UK 480 M Olympic Games 736-738 Proteins 214-215 Oman 322 Punjab 673-676 Nagaland 118, 668-670 Oort Cloud 173 Names, Old and New 469 Namibia 317 Orissa 670-673 Naoroji, Dadabhai 620 Organisations, International 366-370 Qatar 329 National-Osama bin Laden 88 Ouiz-2002 486-509 Anthem 532 Animal 533 Oscar Awards 471 Bird 533 Outer space 164 R Calendar 533 Oven temperatures 249 Emblem 531 Owens, Jesse 706 Racial violence, UK 100 Flag 531 Oxygen Therapy 160 Radioactive contamination Flower 533 Ozone Layer 206 Song 532-533 Railway highest 479 Nations 258-359 Rajasthan 676-678 P Biggest 258 Ranji Trophy 721-722 Flags 84-85 Padma Bhushan 470 Records 478-480, 718-720 Smallest 258 Padma Shri 471 Red Giants 167 National Days 466 Padma Vibhushan 470 Religions-Nauru 317 Pakistan 90, 323 India 547 Navarasa 413 Palau 324 World 371 Navaratna 413 Palestine 324 Reproductive System 224 Nepal 94, 318 Panama 325 Respiratory System 219 Nervous System 223 Panchatantra 414 Review, India 2001 120-128 Netherlands, The 319 Paneerselvam 112,114 Richter Scale 205 Netherlands Antilles 320 Papua New Guinea 326 Rivers 196, 199, 530-531 Networking 150 Paraguay 326 Rivers, cities 482 Newspapers 608-610 Partition 618, 624 Romania 329 Newton's Laws 250 Peaks 201 Round Table Conference New Zealand 320 Peninsulas 200 623,624 Nicaragua 320 People, India 542-543 Rowlatt Act 621 Niger 321 Perec, Marie Jose 708 Russia 330 Nigeria 321 Peru 327 Rwanda 331 Nitrogen Fixation 160 Philately 752-754 Niue 320 Philippines 108, 327 S Nobel Prizes 477 Physics, Olympiad 296 No. of days as PM 484 Planets 175 Samoa 332 Noise Scale 248 Planet names 175 San Marino 332 Norway 321 Plans and Planning 563-568 Sao Tome & Principe 333 Novae and supernovae 167 Plants, World of 210-211 Saudi Arabia 333 NRI Remittances 49 Plate Tectonics 193 Science 156-256

UDHARAM RELWANI 832 index 393, Adarsh Nagar, Jaipur - 4

Sweden 342 Science Scan 156-162 Twitzerland 342 Search Engines 132 Seas 199 Senegal 333

Sepov mutiny 612 Servers 131,148 Seven Wonders of Today

469 Seychelles 334 Shakespeare, plays 481

Sharon, Ariel 100 Sierra Leone 334 5ikkim 678-679

Simeon II 102 Simputer 161 Singapore 335

Skeleton 218 Slovakia 335 Slovenia 336

Smoking 239 Snippets, Cricket 718 Sobriquets 468 Software Careers 382-385

Solar Storms 206

Solar system 172-177 Solomon Islands 336 Somalia 336

South Africa 337 South China Sea 104

Space Exploration 179–183 Space Research 585-589 Space Stations 181 Spain 338

Speakers, Lok Sabha 484 Speed conversion 249 Sports 704 - 750 Miscellany 745

Titbits 750 Sri Lanka 98, 338 States & Territories 628-702 St. Kitts-Nevis 340

St. Lucia 340 St. Vincent & The Grenadines 341

Stars 167 Stemcell research 480 Stop Press 821

Sudan 341 Sun 173-175 Super computer 157

Suriname 341 Swadeshi movement 618 Swarajya Party 616, 622 Swaziland 342

Taiwan 344

Tajikistan 344 Tamil Nadu 114, 679-683 Tanzania 345

TB Epidemic in India 235 Teeth 223 Tehelka 116, 122 Telecommunications 593-

Temperature Scales 249 Tendulkar, Sachin 717 Tennis 722-725

Thailand 345 Thorpe, Jim 706 Thunderstorms, Guidelines

for 189 Time Chart 247 Time Standards 246-247 Tito, Dennis 183

Tobacco 234 Togo 346 Tokelau 320 Tonga 346

Tourism 601-603 Tourist Destinations, India 514-524 Transport 598-600

Trenches, Deep-sea 201 Trinidad & Tobago 347 Tripura 683-684 Tunisia 347 Turkey 347 Turkish Cyprus 284

Turkmenistan 348

u Uganda 349

Tuvalu 349

UK 100,106 Ukraine 349 United Arab Emirates 350 UN 102 UN Conference on Racism

106 United Kingdom 350 United States of America 353

Universe 163-171 Urinary System 222 Uruguay 355 UTI 118, 122 Uttar Pradesh 685-688

Uttaranchal 684-685

Uzbekistan 355

Vanuatu 356 Venezuela 356 Venter, Graig 212 Vice-Presidents 484 Vietnam 357 Virtual Reality 138 Viruses 151-153 Vitamins and Minerals 215-217 Volcanoes 205

W

Wahid, Abdurahman 98 Waterfalls 200 Watersheds 530 Well-Known Books 449 Worms 153 Walsh, Courtney 716-717 Weight Chart 248 West Bengal 688-692 What is What 406-416 Where they Rest 482 Who is Who 416-447 Windows XP 161 Women Rulers 483 World Athletic Meet, Edmonton 710 World Bank group-70 World Cup, 2002 728-730 World Cup, 2006 730-732 World Trade Centre 86

Yemen 357 Yugoslavia 104,358

7 ·

Zaire 280 Zambia 359 Zimbabwe 359 Zeolite-A 162